Roche introduces new Bactrim DS

double strength tablets

only 1 tablet b.i.d. for better patient compliance

For chronic or frequently recurrent urinary tract infection.



Just 1 tablet b.i.d.

When the patient with chronic or frequently recurrent urinary tractinfection falls to comply with therapy, persietent bacteriuria or relapse may occur. Single tablet b.l.d. dosage makes compliance

half the number of tablets

Studies have established bioequivalency of Bactrim DS double strength tablets with the Bactrim single strength tablets.

Same efficacy with Greater economy for patients

Fewor tablets per day offer sufficient medication for the full course of therapy at a lower cost to the

Before prescribing, pleeas consult complete product information, a summary of which follows:

Intaka end perform frequent urinalyses, with careful microsupplied: Double Strength (DS) tablets, each containing and renal function tasks performance.

Indications: Chronic urinary tract infactions evidenced by persistent bacteriuria (symptomatic or asymptomatic), frequently recurrent infections (ralapsa or reinfection), or inand trimethoprim are included, aven it not reported with quently recurrent interesting tract complications, such Bactrim, Blood dyscrasias. Agranulocytosis, aplastic anemia, *fas obstruction. Primarily tor cystitis, pyelonaphritis or pyelitia due to suscaptibla straina of E. coli, Kiebsielia-Enterobacter, Proteus mirabilis, Protaus vulgaris and Proteus

(Fedaral Register, 37:20527-20529, 1972) may be used to estimate bacteriel auacaptibility to Bactrim. A isboratory report of "Suscaptibla to trimathoprim-sulfamathoxazola" indicates an infaction likely to respond to Bactrim harapy. It infection is confined to the urina, "intermediata susceptibility" also indicates a likely reaponse. "Rasistant" indicates

that response is unlikely. Contraindications: Hyparsensitivity to trimethoprim or aulonamides; pragnency; nursing mothers.

Warnings: Deaths from hyparsansitivity reactions, Warnings: Deaths from hypersonicative devices again the strong discretization of the strong discretizat methoprim is much more illimited but occasional interior.

ence with hematopolesis has been reported as well as an incorporate. Not recommended for children under 12. Usual creased incidence of thrombopenia with purpure in aldarly adult disage: 1 08 tablet (double atrength), 2 tablets (sinpatients on certain diuretica, primarily thiszidas. Sore glastrength or 4 teasp. (20 ml) b.i.d. for 10-14 days. throst, faver, pallor, purpure or jaundice may be early signs of serious blood disorders. Frequent CBC's are recommended; therapy should be discontinued if e significantly reduced count of any formed blood alement is noted. Data are insufficient to recommend use in infants and children

Preceutiona: Use ceutiously in patients with impaired renation hepetic function, possible folata deficiency, severe allergy or bronchiel esthme. In patients with glucose-6-phosphate dehydrogenase deficiancy, hamolysis, traquently dosered ated, may occur. During therapy, meintain adequate fluid.

scopic axamination, and renal function tasts, perticularly

magaloblastic anamia, thrombopania, leukopsnia, hamolytic snemia, purpure, hypoprothrombinamia end methemogiobinemia. Aliergic reactions: arythema mulliforme, Sievensmorganii.

NOTE: The increasing fraquancy of resistant organisms necrolyals, urticarie, serum sickness, prurilus, axioliative darmatitis, anaphylactold reactions, parlorbital adama, conjunctival and sciaral injection, photosensitization, arthraigha and allergie myocarditis. Gastrointestinal reactions: Giossitis, atomatitis, nausea, emesis, abdominal psins, hapatitis, diarrhaa end pancreatitis. CNS reactions: Haadacha, paripharal neuritia, mental deprassion, convulsions, elsxia, hallucinstions, tinnitus, vertigo, insomnie, epathy, failgua, muscia weaknass and nervousness. Miscellaneous reacthousing weaknass and nervousness. Miscellaneous reactions: Orug fevar, chills, toxic naphrosis with oliguria end anuria, perierteritis nodose and L. E. phanomanon, Oue to cartain chemical similarities to some goltrogens, diuretics (acetazolamide, thiazides) and oral hypoglycamic agents, sultonamidae have caused rare instences of golter production, diuresis and hypoglycamia in patients; cross-sensitivities.

For patients with renal impairment: Recommended Dosage Regimen Above SO: Usual standard regiman

1 DS tablet (double strength) 2 tablets (single strength) or 4 teaep. (20 ml) every 24 hours Usa not recommended.

160 mg trimothoprim and 800 mg sulfamethoxazole, bottles of 100; Tel-E-Dose* packages of 100. Telbis, each continuation laining 80 mg trimethoprim and 400 mg sulfamelhoxazole —bottles of 100 end 500; Tel-E-Dose* packages of 100; Prescription Paks ot 40, evallable singly and in trays of 10, Orel suspansion, conteining in each teaspoonful (5 ml) the equivalant of 40 mg trimethoprim end 200 mg sulfamelhox azola: trult-licorice flavored-boitles of 16 oz (I pini).

For chronic cystitis and pyelonephritis evidenced by persistent bacteriuria and due to susceptible organisms



Roche Laboratories
Division of Hoffmann-La Roche Inc.
Nutley, New Jersey 07110

MedicalTribune

world news of medicine and its practice-fast, accurate, complete

Wednesday, November 12, 1975

At the PNHA National Assembly:



Dr. Jean Szilva, left, representative Iron Akron Generat Hospitat, Ohlo, discusses unionization of PNHA with Dr. Gaylord Nordine of the North-



PNHA exec. dir. Steve Diamood (right) reports to Assembly as v.p. Dan Asimus (left) looks on.



dorsement of candidates for the AMA

Housestaff Assn. Votes To Become National Union

WASHINGTON-When the National Astembly of the Physicians National Housestaff Association passed Resolution 15 by a unanimous voice vote last month, there was silence, and then the Consinued on page 10

'Sudden Onset' **Tells Strep from**

seems to be hyalioe membranc disease in a neonate may in fact signal the presence of group B streptococcal sepsis, an illinois team warned here.

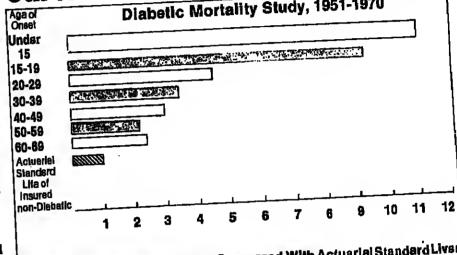
Calling for immediate initiation of antibiotic therapy in auch patients, even prior to results of a culture, the team stressed that the usual clinical signs and symptoms auggestive of infection may often be "remarkably absent" in group B streptococcal scpsis.

Prasanting Symptoms

In the series of 11 infants described by Dr. S. t. Baman, Chief of Microbiology at St. Francie Hospital Center, Continued on page 21 only two-lotd greater.

New Insurance Study Reveals

Sugar Control 'Important' to Hyaline Disease Survival of Diabetic Patients



ortality Ratios Among Disbetics Compared With Actuarial Standard Lives By Age of Onset

rhea, hepatospicnomegaly, and pete- Decreased life expectancy of diabetics is especialty marked at earlier onset of disease, as shown in table above comparing mortality ratios of diabetics with those most common presenting symptom was of standard insured uon-diabetics. Data are based on prospective 20-year study respiratory diatress, Dr. Bantan told the American Society of Clinical Path-the American Society of Clinical Path-By NATHAN HORWITZ

Anti-Asthma Steroid Aerosol, Available Abroad, Withheld

of beclomethasone, an anti-nsthmatic uncomplicated asthma who reapond to steroid oernsol, leaves the United States steroids. the only major English-speaking nation to withhuld the drug from the profession

The British-developed compound, which avolds the systemic side effects of oral prednisone, has virtually replaced oral steroid therapy in the treatment of appropriate aethma patients in Great Britain, according to Dr. Timothy J. H. Clark, consultant physician to Guy's Hospital and Brompton Hospital, Loodon.

Available in the United Kingdom since 1972, following three years of clinical trials, beclomethasone diproplonate is "probabty being used now In almost the entire British of asthmatics for whom it is indicated," Dr. Clark told MEDICAL TRIBUNE bere. The drog has been approved for prescription use in all of the Scandinavian nations, West Germany and other European countries, and in Australla and New Zealand.

Dr. Clark, an internationally recognized authority in respiratory disease and a principal investigator in a continuing multi-conter, double-blind British atudy of the drug, said the primary value of beclomethssorie is that

It is a "systemic steroid-sparing agent." It is indicated for use in putlents with

The British multi-center studies, as well as recent American investigative Irials, have shown that beclomethasone and a related compound, betamethasone valerate, controlled asthma symptoms while enabling patients to decrease or totally eliminate oral steroid doses, Dr. Clark sald. The inhalants do Continued on page 13

low-up of more than 10,000 diabetics showed that blood sugar control is an "important factor" in the survival of the diabetic patient. The finding, one of the highlights in

New York-In what is believed to be the largest mortality study of its kind, a major tife insurance company has re-

ported that a prospective, 20-year fol-

the long-term natinnwide investigation, disclosed that denths among poorly controlled patients ran about two-anda-half timea higher than among those who were well controlled. Diabetes experts are in the midat of a controversy over the significance of control in the Continued on page 2

quit or modify practice or leave the atate if planned 486% increase in malpractice premiums takes effect Jan. 1 in southern Calif., according to Dr. Joseph Boyle, Pres. of the Calif. Medical Association. 10% of the state's doctors have already and snother 10% will be some clinics have not had a by Jan. Dr. Boyle said that litigated suit in 7 years.

if doctors walk out, the state's 550 hospitals are doomed to bankruptcy. According to many state physicians, other breakdowna in the system -- refusala by doctors and hospitals to provide high-risk services, including delivering babies are imminent or already underway. While some physicians maintain that Medi-cal patients ara a chief source of malpractice suita, Dr. Geoffrey Gordon, of the San Diego Council of Community Clinics, says his 17 free



Control of Blood Sugar Extends Diabetics' Lives

Continued from page 1 development and course of diabetic complications and on survival.

Even when juvenile diabetics under age 30 were excluded from the data. mortality among poorly controlled patients totalled nearly twice that of the well-controlled group, according to the findings by the Equitable Life Assurance Society of the United States.

The report by Dr. George Goodkin, Equitable's associate medical director, was based on studies of 10,538 diabet- and that the two-and-a-half times inics who applied for life insurance at crease in mortality of the poorly con-Equitable between 1951 and 1970. It trolled group over that exhibited by the is the first prospective mortality study good control casea can be attributed by the life insurance industry, according to Dr. Goodkin, in which both accepted and rejected applicants were findings, Dr. Goodkin noted that albufullowed to determine the mortality ra- minuria and the early onset of diabetes tins for both groups.

Substandard Risk

The findings, "contrary to the opinion of some clinicians," confirmed that the diabetic, even if well-controlled, is a "heavily substandard riak, with a mortality ratio far in excess of normal," Dr. Goodkin said in his report, published in the November issue of the Journal of Occupation Medicine.

Overall, there were 1,478 actual deaths compared to 440.26 expected deatha for standard insured lives, a the groups with a diaatolic of less than greater than three-fold difference. Rejeeted applicants had a four-fold mortality compared to standard expectations, and accepted diabetics (those who met underwriting criteria for insurability) had a deoth rate more than one-and-a-half times that of normal, Dr. Goodkin declared.

Among the other highlights revealed by the study were these:

• The finding of nlbuminuria in a diabetic is "nn extremely unfavorable" prognostic sign.

• The mortality risk of hypertension In the diabetic is gravely multiplied when compared to the non-diabetic, especially at ages under 40.

In discussing the role of control in diabetes, Dr. Goodkin observed that the current controversy has resulted in different philosophies of management, ranging from that of strict control to free diat.

Juventle vs. Adult Onset

"Some claim that strict control relards the long-range development of the complications of diabetes and therefore decreases mortality," Dr. Goodkin said. "Others contend that diabetic complications, especially the vascular changes, occur in the prediabetic stage blind atudy of 169 patiants, designed to of the natural history of the diaease before there is any discernible abnormality . . [and] they contend, therefore, which vidarabine was the only olntment their disease was greater than in the mality cannot be a major factor in the development of complications.".

Since juvenile diabetics heve trouble maintaining good control of the increased severity of their disease, Dr. Goodkin declared, a queation that had to be resolved was whether the increase showed "no significant difference" bein deatha in the poorly controlled cases tween the two antiviral agents in mean was due to poor control or to the time for complete epithelial healing and Similar reduction in the incidence of played significant toxic reactions to

betics diagnosed under age 30 were omitted from the series, the mortality rate of poorly controlled patients was still almost double that of those who were well controlled.

"This small difference in mortality percentages between the juvenile diabetics and the maturity onset diabetics suggests that the difference in age distribution does not really account in any large measure for the highly excessive mortality in the poor control group, mainly to the effect of control alone."

Commenting on some of the major were found to be associated with very high mortality ratios.

"Albuminuria showed a mortality ratio of 1031 per cent [more than 10 times that of standard insured applicants and is a potent risk factor in diabetea, since it indicates the presence of renal complications and reflecta the high mortality associated with Kimarelstiel-Wilson disease," he reported.

Hypertension, too, proved more ominous in the diabetic than in the nondiabetic patient, the report ahowed. In 90 mm. the mortality ratioa increased with increasing systolic blood pressures: 267 per cent in those with a systolic of less 140 mm., 334 per cent in those with a systolic of 140-159 mm. and 506 per cent in those with a systolic reading of 160 mm. or more. The same trend held true in the groups with a diastolic of 90 to 99 mm., the mortality percentages being 375, 418, and 459 per cent respectively.

Dr. Goodkin stressed, however, that there was a trend of decreasing mor-



Elucidating Different Lymphocytes

T-cell or B-cell? Electron microscopists have reported they can differentiate between thymus-dependent and bone-marrow tymphocytes (T- and B-cells. respectively), the former by their smooth surfaces, the infler by the surface vill. But more receal studies suggest that the surface structures shawn by the electron seaning microscope may differ widely, depending on the method of cell preparation. The phalo above, for example, shows n T-cell rosette fram a leukemla patient, but the T-cell, center, has the villuus surface usually ascribed to B-cells. (photo by Drs. D. Belpomme and D. Danteliev, Villejulf, France.)

plication for insurance policy, suggest- observed, "the dinhetic of the same age "that this is an age-related effect."

Effect of Hypartenaion

He acknowledged that the data were suggestive but not sufficient to resolve the question whether hypertension in diabetics has a greater inspact un mortality than in non-diabetics. He nuted that the well-controlled, 35-year-old diabetic without complications has a mortality ratio of 247 per cent compared to the 100 per cent expected for the non-diabetic of the same age.

"The mortality ratio of the 35-yearold non-diabetic with a blood pressure of 150/95 is 195 per cent. If these were tality with increasing age at time of ap- almply additive effects," Dr. Goodkin

with a bluurt pressure of 105/95 would have it martality ratio of 342 per cent. Our duty, immever, show it to be 1352 per cent-a difference of over 1000 per cent between the actual and expected mortalityl "The difference is much smaller,

however, for the well-controlled dishetic, uge 50, with a blood pressure of 150/95, whose predicted mortality ratio is 22t per cent, while the actual mortality rutin was 296 per cent. The same trend holds true at all levels af increased blond pressura. Thus, it appeurs, hypertension has a greater adverse effect on mortality among diabeties than uniong noa-diabeties.

NewAgent Held Effective in Herpetic Keratitis

DALLAR-Trials of vidarabine (adenine arabinoside) in the treatment of herpetic keratitia indicate that this new agent equala idoxuridine (IDU) in effectiveness and furthermore will benefit a bigh percentage of patienta who eilher cannot tolerate or are resistant to the other drug.

Reporting here on results seen in 315 patients, Dr. Deborah Pavan-Langston of Harvard Medical School said the trials had included a double-

Food and Drug Administration and is ant of, or resistant to, IDU. expected to be available soon.

Findings from the double-blind trial greater representation of severe luve—the percentage of patients achieving other symptoms was observed. Visual vidarabine "even after 192 days of connection of severe luve—the percentage of patients achieving other symptoms was observed. Visual vidarabine "even after 192 days of connection of severe luve—the percentage of patients achieving other symptoms was observed. Visual vidarabine "even after 192 days of connection of severe luve—the percentage of patients achieving other symptoms was observed. Visual vidarabine "even after 192 days of connection of severe luve—the percentage of patients achieving other symptoms was observed. Visual vidarabine "even after 192 days of connection of severe luve—the percentage of patients achieving other symptoms was observed. Visual vidarabine "even after 192 days of connection of severe luve—the percentage of patients achieving other symptoms was observed. Visual vidarabine "even after 192 days of connection of severe luve—the percentage of patients achieving other symptoms was observed. Visual vidarabine "even after 192 days of connection of severe luve—the percentage of patients achieving other symptoms was observed."

Langston told the American Academy of Ophthalmology and Otolaryngology.

The investigator also noted that the drugs had approximately the same effects in relieving symptoms of lacrimation, photopbobia, and sensitivity. However, the proportion of patients whose distant visual aculty improved was aignificantly higher in the vidarabine group (66.2 per cent) than in the IDU group (43.5 per cent).

Lacrimation Dropper

All 146 patients in the open sludy of vidarabine, and an open sludy in herpetic keratitis, and the severity of drug levels because of poor solubility, which vidarables was the collection of the severity of drug levels because of poor solubility. Although vidarabine has been obclinable only for experimental purcoording to D. Branch and the and replic in still metaconducts and double-blind group as measured by size it appears that many failures result it appears that many failures result in the and replic in still metaconducts in the and replic in still metaconducts. talnable only for experimental purnoses it has now been according to Dr. Pavan-Langston. Nearly the only commercially available and poses, it has now been approved by the 80 per cent were known to be intoler-

With vidarables treatment, the prodropped sharply from 90 per cent to about 23 per cent to about 23 per cent to about 23 per cent to a number of these were disease related about 23 per cent at the end of therapy. and not drug induced. No patients dis-

holf uf the 90 patients evaluated.

Approximately 95 per cent of dendritic and dendrito-geographic ulcers cleared during four weeks of treatment but only 60 per cent of geographic ulcers did sn.

Most significantly, in Dr. Payan-Laagstun's view, re-epithelialization occurred within four weeks after the start of therapy in 91 of the 116 patients for whom previous IDU treatment had been either toxic or ineffective.

"In the past," she said, "IDU failures were often attributed to patient aegiech of medication schedules, inadequale and repid in situ metabolism. But now

Although some patients had adverse experiences with vidarabine-as with Found 40% Wrongly Placed therefore be taken during the placement of sommic blocks, they con-

FLORENCE, ITALY-There is a 40 per

Needles for Nerve Block

cent chance of error in needle placemeat when nerve block sites are selected by the classical method of geometrical formulas based on anatomical landmarks, according to Dr. Verne Brechaer, Professor of Anesthesiology, and Dr. Theresa Ferrer-Brechner, Assistant Professor, U.C.L.A. School of

By HILDA LASS

Wednesday, November 12, 1975

Thirty patients who received either diagnostic or therapeutic nerve blocks at the U.C.L.A. Peia Manegement Clinic were studied. The placements were performed without the aid of fluoroscopy, adhering to the landmarks recommended in a standard textbook, the investigators told the First World Congress on Pain Research and Ther-

X-rays Suggested

Following placement, fluoroscopy was carried out and permanent X-rays taken. The needle was repositioned if necessary and local anesthetic injected, sometimes with contrest medium. The overall score was 12 incorrect placements, or 40 per cent, they stated.

The most conslatently accurate wos the stellate ganglion block, correctly placed in five out of six petlents. The highest incidence of error occurred with the lumbar somatic block (four out of five), where the most common error was placement of the needle in the wrong interspace.

Sioce somatic nerve blocks are used to predict the results of rhizotomy, on incorrectly located block could result in severing the nerve at the wrong level, and this could be one reason for the 25-45 per cent foilure in posterior rhizotomy cited by some outhors, the investigators believe. X-rays should of treating enusalgla und other reflex

Noninvasive Therapy

➤ The development of new, noninvasive types of pain therapy and advancement in the understanding of pain mechanism will limit the clinical use of nerve blocks, said Dr. John J. Bonica, Professor of Anesthesiolugy and direcadded. tor of the Pain Clinic at the University of Washington School of Medicine.

Atthough nerve blocks will continue to play a prominent role in treating certhe real future of the technique lies in its potentialities as a research tool, said Dr. Bonica, who during the congress was voted President-Elect of the International Association for the Study of Pain, formed n year ago.

"We can and should restudy the sensory supply to various structures of the body," he continued, "using nerve blocks and the improved regional techniques, new anestheties, ndvanced mdiography, and the sophisticated neurophysiologic recording techniques enrrently available."

Two factors have impeded the use of blocks to study pain mechanism, Dr. Bonica said. First, "Most investigators have not realized that techniques are avnilable to interrupt discretely virtually every spinal, ernninl, aynipathetic or parnsympathetic nerve pathwny in the body." Secund, "Regional anesthesio has hardly been taught in the past three decades so that many anesthesiologists lack the training to execute most uf the blocka."

In pain therapy, Dr. Bonien sald, blockade of the sympathetic pathways is likely to remain one of the best ways

sympathetic dystrophies, and, to a lesser extent, acute herpes zoster and postherpetic syndrome. "Celiac plexus block will also continue to be useful in the diagnosis of obscure abdominal pain, in severe pain in acute and chronc panercatitis and cancer," he said.

Block of specific spinal nerves in the paravertebral region will be useful in diagnosis and prognosis, he continued. Intercostal aerve block will have its place in controlling acute pain due to fractures, in postoperative pnin of the thorax and abdomen, and in the management of postoperative, post-traumatic and postinfectious neuralgia, he

Subarachnoid Block

tain types of acute and chronic pain, noid block with alcohol or phenol



Hypergiycemia therapy with somatostatin seen as coming in the near future 17 "Unexplained" fever in cancer patients laid to hidden intection24 Pediatrics: 1

CLINICAL NEWS NOTE: "Hopefully,

with the widespread use of beclometh-

asone in the rest of the Western world

-as well as the English-speaking Pa-

cific nations-the F.D.A. should come

to a speedy conclusion as to its efficacy.

It has been reviewed and approved by

the regulatory agencies of the U.K.,

Australia and Canada, to name only

some, and there should be enough evi-

dence on which the F.D.A. can base a

judgment. If not, the F.D.A. ought to

advise the other regulatory agencies

what to look for, because the F.D.A.'s

hesitation suggests that the other agen-

cies have been remiss in some impor-

tant respects." (Dr. Timothy J. H.

Clark, coasultant physician, Guy's

Hospital, London See page 1.)

Medicine: 1, 2, 3, 10, 17, 24

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880 Third Avenue, New York, N.Y., 10022 *Telephone: 421-4000 Circulation oudited by Business Publica-tions Audit of Circulation, Inc.

Medical Triaune is published each Wednesday except on April 30., July 9. July 30. Aug. 13, Oct. 29 and Dec. 21, by Medical Tribune, Inc., 880 Third Ave., New York, N.Y., 10022. Controlled circulotton postage paid at Vineland, N.J. 08360 Subscription \$25.00, Students \$7.50.

Spleen May Suppress Body's Defenses

By Anastasia Toufexis Medical Tribune Staff

WASHINGTON-"The chronic nature of some infectious diseases may be due to suppression of the body's defenses by the spleen," Dr. David J. Wyler of the National Institute of Allergy and Infectious Diseases, Bethesda, Md., told a meeting here of the American Society for Microbiology.

"We've known for some time that the spleen plays a protective role in the acute stages of infection, and our own iavestigation confirms this, but this is the first time an inhibitory role has been demonstrated," he said.

Speaking for colleagues Dr. Louis H. Miller, also of NIAID'a Laboratory of Parasitic Diseases, and Prof. Leon H. Schmidt of the Southern Research Institute, Birmingham, Alebama, Dr. Wyler said these conclusions were drawn from a study of the course of infection in rhesus monkeya inoculated with Plasmodium inui, a monkey para- tally unexpected finding was that sple-

site similar to P. malariae. In man, P. malariae causes quartan malaria, a type of malaria characterized by fever every 72 hours, Dr. Wyler explained, If untreated, the infection may

persist for as long as 50 years. Seventeen monkeys had their spleens

removed prior to intravenous inoculaanother 19 were splenectomized after is very confused, Dr. Wyler told Medtion with paraaitized erythrocytes while infection. A third group of 40 infected monkeys were left intact. "We found that the spleen exerted a

protective effect during the acute stages infection," Dr. Wyler anid. "While both groups of splenectomized monkeys consistently had ten-fold higher peek parasitemies than did intact aniinfection occurred only in the group system is compromised," he sald, with spleens removed prior to inocu-

'Unexpected Finding'

The rate of parasite clearance after peak parasitemia was similar in all surviving animals, regardless of which group they were in, he added.
"But," Dr. Wyler continued, "the to-

nectomized monkeys achieved self-cure within a year while intact animals had persistent infection, lasting up to 16 years, in association with low cure rates In the first five years."

While these observations suggest that the spleen in quarten malaria has both protective and suppressive functions, its role in infectious disease in general

"Until recently, the thought was that the spleen functioned as an organ to Irap bacteria and other organisms circulating in the blood. Mare recently, basic immunology studies suggest that certain types of antibodies are produced by the spleen. And when the spleen is removed, the body's immune Dr. Wyler is presently on leave from

NIAID and in Bostoo at Maaaachusetts General Hospital, engaged in a retrospective analysis of patient charts. "One Interesting thing is that it's becoming cleer that when the spleen is removed before the nge of two, and sometimes five, the child is more susceptible to infection. In adults, the effect of spicen removal is less clear."

The investigetora speculate that the spleen's opposing roles in protection and auppression may relate to the immunologic balance between the func-tions of T- and B-cells in the apleen.

Nobelist Explores Lysosome Role in Rheumatic Disease

Medical Tribune World Service

HELSINKI—Reviewing the role of lysosomal inflammetory processes in rheumatic diseases at the 8th European Rheumatology Congress here, Nobel laureate Christian de Duve explained three mechanisms by which lysosomes are involved in pathogenicity and suggested possible therapeutic applications of these digestive vesicles found in all animal ceils.

One such mechanism is lysosomal overloading, Dr. de Duve said. It occurs when lysosomes take up material they cannot digest, when there is an imbalance in substrate and enzyme activity, or when an enzyme is deficient genetically or has been poisoned. This mechanism might be responsible for "choking a cell to death" after injection of certain drugs.

Another mechanism, he said, is rupture of the lysosomal membrane, such as by injury. This probably happens in

Enzyme Discharge

A third mechanism—of particular importance in rheumatic diseases—is the discharge of enzymes from the lysosomes to the extracellular spaces. These enzymes attack extracellular components if the cell inhabits a stegnant environment or if the environment is invorable to the activity of the enzymes.

"On the basis of what we suspect, rather than what we know, in the pathogeny of rheumatic diseases," sald Dr. de Duve, "we can theoretically think of Intervening at different levels."

The most immediate the rapeutic epplication would be inhibition of the activity of the enzymes that have been released extracellularly.

Another level of intervention, he said, might entail preventing extracellular release of enzymes. This release could be inhibited by changing the
physical properties of the membranes,
perhaps making them more rigid and
less able to fuse, or by inhibiting the
machinery that activates the fusion
phenomenon.

"We know very little about this machinery," Dr. de Duve said, "but there is some evidence that cyclic AMP inhibits fusion and that cyclic GMP stimulates fusion. So possibly by changing the levels of the cyclic nucleotides in the cell with certain drugs you may be able to influence the fusion phenomena."

It is known, for example, that prostaglandins influence the levels of eyelic nucleotides and that aspirin inhibits the synthesis of prostaglandins, said Dr. de Duve. "And so it is not impossible that prostaglandina may act on some lysosomal mechanisma by way of eyelle nucleotides, and that salicylates somehow prevent these mechanisms by acting on the prostaglandins. But this is hypothetical."

Dr. de Duve ourrently serves with Rockefeller University in New York He shared the Nobel Prize in Physiology and Medicine in 1974 with Albert Claude and George Palade



BRIEF SUMMARY Sinequan^e (doxepin HCI) Capsules

Contraindications: Sinequan le contraindicated in individuale who have shown hypersensitivity to the drug.

Sinequan la contraindicated in petients with plaucoma or e tandency to urinery retention.

Warnings. Usage in Pregnancy: Sinequen has not been studied in the pregnant patient. It should not be used in pregnant women unless, in the judgment of the physician, it is essential for the wellare of the patient, although splimel reproductive studies have not reculted in any teratogenic effects.

Usage in Children: The use pt Sinequan in bhildren under 12 years of sign is not recommended, because safe conditions for its use have not been established.

MAO Inhibitors: Serioue aide effects end even daaih have been reported following the concomitent use of certain druge with MAO inhibitors. Therefors, MAO inhibitors should be discontinued at least two weeks prior to the ceutious inlitation of therapy with Sinequen (doxapin HCI). The exact length of time may vary and is dependent upon the perlicular MAO inhibitor being used, the length of time it has been administered, and the dosage involved.

Precautions. Sinca drowsiness may occur with this use of this drug, petiants should be warned of that possibility and cautioned against driving a car or operating dangarous machinery while taking this drug:

Patients chould also be ceutioned that their response to alcohol may be potentiated. Since suicide is an inherent risk in any dapressed paliant and may remain so until

eignitioant improvement has occurred, patients ehould be closely supervised during the early course of therapy.

Atthough Sinaquan (doxapin HGI) has eignificent trenquilizing ecilyity, the possibility of ecilvation of psychotic symplome should be kept in mind.

Other etructurelly raieled psychothers peutic egante (e.g., iminodibenzyla and dibenzocyclohaptenes) are capable of blooking the effects of guanethidina and eimiliarly acting compounde in both the animet and men. Sinequan, however, does not show this effect in animete. At the usual clinical doseines in a simple of the compounde without blooking the reletted compounde without blooking the entity pertensive effect. At doses of 300 mg, per day or aboya, Sinequan does exell a per day or aboya, Sinequan does exell a light cant blooking effect. In addition,

Sinequan (doxepin HCI) was similer to the other structurally related psychotharepeutto significant as ragarde lia ability to polentiate the prepinephrine rasponae in the entmel. However, in the human the effect was not seen. This is in agraement with the low included of the aide effect of tachycardie sasn thinksity.

Armes Reactions. Anticholinergic Effects:
By mouth, blurred vision, and constipation have been reported. They are usually mild, and often subside with continued thereby or reduction of dose.

Central Nervous Systam Effacts: Drowst
Rese has been observed. This usually occurs of 50

any in the course of treatment, and tende quent
being been as therapy is continued.

Cardiovescular Ellects: Tachyoardia and historian have been raported infrequently.

include extrapyramidat symptoma, gastroinlestinal reactions, secretory effects such se increased awasting, weakness, dizzinsse, latigue, weight gein, edame, persethasias, llushing, chills, linnitus, photophobie, decraesed libido, rash, and pruritus.

Dosage. For most petients with illness of mild to moderate sevarity, a starting dose of 25 mg. t.t.d. is recommended. Ocasge may subsequently be incressed or decreased at eppropriete intervals end according to individual response. The usual optimum dose renge is 75 mg./day to 150 mg./day.

In more severely til patients an initial dose of 50 mg. t.t.d. may be required with subsequent graduel increase to 300 mg./dey ill necessery. Additional therepeutic affect is rarely to be obtained by exceeding a dose of 300 mg./day.

In patients with very mild symptomatology

or emotional symptoms accompanying orgenic disease, lower dosas may eurifice. Borne of thess patients have bean controlled on doses as low es 25-50 mg./day.

Although optime! antidepreasent response may not be evident for two to three wasks antianxiety activity is rapidly epparent.

Supply. Sinsquan (doxepin HCI) is available as capsules containing doxepin HCI equivelent to 10 mg., 26 mg., 50 mg., and 100 mg. of doxepin in bottles of 100,1000, and untidose packages of 100 (10 x 10 a).

More distailed professional information valiable on request.



Needles Found 40%WronglyPlaced In Nerve Block

Continued from page 3
should be limited to patients in the terminal stage of the disease and applied only in those patients with advanced metastatic cancer with clearly monolsteral and well-circumsenbed pain, Prof. Vittorio Ventafridda, director of the Phin Therapy and Rehabilitation Department, National Tumor Institute, Milan, reported. Results are difficult to predict as they depend upon the direct or indirect involvement of various types of nerve fibers, and complications are frequent.

Of 227 patients in whom 319 neurolytic blocks were performed, complete remission of pain for at least six days was recorded in only 56 per cent. The average duration of pain relief was 15.4 days. There were temporary complications (bladder or rectal disturbances, muscle weakness, paresis) in 40 per cent of eases.

With good positioning and correct needle placement, this technique still holds a limited place in cancer pain therapy. Dr. Ventafridda concluded. However, when the patient is still in good general condition and has not reached the terminal stage, other methods should be chosen.

Co-nuthor was Dr. G. Martino, also of the National Tumor Institute, Milan.

In Herpes Zoster

Neurolytic blocks are still the most effective treatment of acute herpes zoster and the best prevention for post-herpetic neurulgin, said Prof. Willy H. Dum of the department of nnesthesiology. Bispebjerg Hospital. Copenhagen. He reported a follow-up study of 311 out of 378 patients treated in the past decade.

Of these, 279 acute cases were treated with 86 per cent success. Only 14 per cent of all patients treated with blocks later developed postherpetic syndrome. All patients below the ago of 50 were cured and there was no significant difference in the incidence of fallure between 50 and 79 years of age. There were too few patients over 80 to draw any conclusions.

No algnificant correlation was found between the location of the disease and the results of treatment, or between the location of the disease and age, Dr. Dan pointed out.

Acute cases were treated with stellate blocks for herpes zoster localized at the trigeminal nerve, or with lumbar sympathetic blocks if the disease was localized at the lumbo-sacral plexus. Carbocaine (1 per cent without vaso-constrictor) was used. For latereostal blocks, a combination of 20 per cent ammonium sulphate and 2 per cent carbocaine was employed.

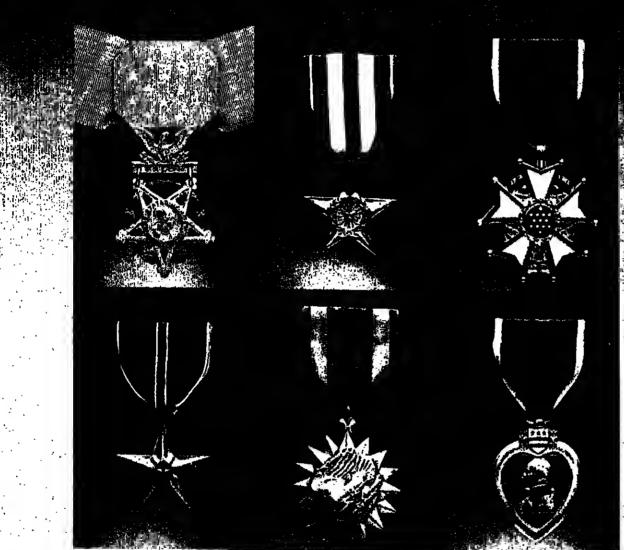
The patients received five blocks a week up to a total of 18 blocks. Skin eruptions usually dried up within a week, and pain disappeared after an average of 12 blocks.

Postherpetic syndrome was treated with 8 per cent phenol in water or 97 per cent alcohol injected in the somatic nerves involved, as close as possible to the cranium or spinal canal.



Salerno, Normandy, Iwo Jima, Inchon.

And still one more battle...



Top, laft to right: Medal of Honor (Army), Silver Star, Legion of Marit Bottom, left to right: Bronze Star, Air Medal, Purple Heart

Reterances
1. Etiacis of iroalment on morbidity in hypartension: Rasulis in patients with diastolic blood pressures averaging 115 ihrough 129 mm Hg, Valarana Administration Cooperativa Study Group on Anthypertenaiva Agenis. JAMA 202: 1028-1034, 1967.
2. Effects of Iraalmani on morbidity in hypariansion: II. Rasults in paliants with diastolic blood pressura avaraging 90 through 114 mm Hg, Valarans Administration Cooperativa Study Group on Antihypariensiva Agents. JAMA 213: 1143-1152, 1970.
3. Russeli RP: Hypartension, in Harvay

3. Russell RP: Hypartension, in Harvay AM, Johns RJ, Owens AH, al al feds): The Principles and Practice of Medicina ad 18. New York, Appleton Century Crotta, 1972, pp 331-334.

Crotta, 1972, pp 331-334.

4. Gillord RW; Oruga for arlarial hyperionsion, in Modail W (adi: Orugs of Choice, 1972-1973, St. Louis, The CV Moaby Co, 1972, pp 390-393.

5. Saliars AM, Itakovliz HO, Lindauar MO: Systemic arlarial hyperienalon, in Conn HL Jr, Horwitz O (ads): Cardiac and Voscular Diseases. Philadeliphis, Loa & Febiger, 1971, vol II, np 934-943.

Ser-Ap-Es°

Hyperlansion, (See box warning.)

WARNING
This lixad combination drug is not indicated for initial therapy of hypertension. Hypertension requires therapy tirrated to the individual patient. It the tixed combination represents the dosage so datermined, its use may be more convenient in patient management. The treatment of hypertension is not stelle, but must be reevaluated as conditions in each patient warrant.

Reserpine: Known hypersensitivity; mental depression (especially with sui-cidel tandancies); scilve papito ulcer;

matic heart disease.
Hydrochiorothiezide: Anuria; hypersenativity to this or other sultonemide darived drugs. The routine use of diuretice in an otherwise healthy pregnant woman with or without mild edems is contraindicated and possibly hezardous.
WARNINGS.
Reasrpine: Use with extreme caution in potients with a history of mental deprassion. Oiscontinue at this sign of despondency, estry morning insomnis, loss of appatile, impotence, or sell-daprecation. Orug-induced deprassion may peraist for several monine after drug withdrawal and may be asvera a nough to result in auticide.
MAO inhibitors should be avoided or

anough to result in auticide.

MAO inhibitors should be avoided or used with axtreme caution.

Hydraiazine: Chronic sidministration of doses over 400 mg delly may produce an arthrilis-like syndrome simulating acute systemic lupus arythematosus. This may elso occur at lower doses. Long-termireatmani with aleroids may be necessary and restdue have been delected many years later. CBC's, L. E. cell preparations, and entinucteer snitbody titer daterminetions are indicated before and periodically during profonged inarapy with hydraiazine or it has pallent develops any unexplained algne or symptoms.

aigns or symptoms. Use MAO inhibitors with caution. hydrochlorothiazida: Use with caulion in savera ranei disease, in pallants with ranal disease, ir iszides may precipitals azolamia. Cumutaliwa ettects of the drug may develop in pallants with impaired ranal tunction.

This rides about be used with caution in pellants with impatred happilo lunction or progressive liver disease, since minor atterations of fluid and electrolyis imbalance may precipital a hepatic come.

coma.

Thiazides may be addilive or polentiality of the sollon of others antihypertensiva drugs. Potentiation occure with genetic or pertensed advancage blocking drugs.

Sensitivity reactions are more likely to occur in patients with a history of stergy or blonchial astimes.

The possibility of exacerbation or activation of systemic tupus erythematosus has been reported.

Usage in Premancy
Reserpine: The satety of reserpine tor use during pregnancy or facts in heading pregnancy or lacts in heading personal the interesting pregnant patients of woman of childbearing polantial only when, in the judgment of the physician, it is assential to the welfere

of the pallant increated respiratory fract secretions, hast congeniton, cyanosis, and apprexis may occur in neonates and apprexis may occur in neonates and oreast-fed thisnis of reastpine crosses the placenthic berrier and appears in maternal breast milk.

Hydralazine: The drug should be used only when, in the judgment of the pallant, in the judgment of the pallant, in women of the pallant, in women of the pallant, in women of childbearing sign requires that the poleratal benefits at the drug.

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Market placenthic between descential bearter and appear in cord blood and breast in women of the pallant, in the judgment of the judgment of the pallant, in the judgment of the jud be precipitated).

Exercise caution when treating hypertensives with renal insufficiency. Use cautiously with digitals and quinidine. Intraopersitive hypotension has occurred in hypertensive petiente receiving rauwoiffs preparetione, but withdrawel of reserpine does not assure their circulatory instability with not occur in such petiente.

Hydralazine: Usa cautiouely insuspected coronary ariety or other cardiovascular disease, carebrat vasquer accidents, and advanced rahal damage, Postural mailles develop, discontinue therapy.

The battle against hypertension...

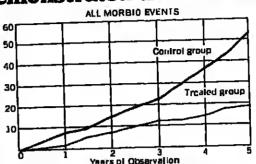
The VA studies demonstrated the need for therapy."

in the VA study of 1967, I has patients 60

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Control was achieved "with...

hydrochlorothiazide

provides a mild antihypertensive effect through control of fluid volume; potentiates the activity of other antihypertensive agents.3,6 (a) Symbolized raduction in circulating

plus reserpine

lowers blood pressure through produces a central sedative effect which may prove particularly useful in the management of the stress-reactive patient.



plus hydralazine

the unique action of hydralazine lowers blood pressure through direct arteriolar vasodilation to reduce peripheral resistance.a. (c) Diagram of relexed arieriols

Only one antihypertensive agent contains all three components used in the two published VA cooperative studies."

In the VA studies. Ser-Ap-Es was not used. However, all the components of Ser-Ap-Es were used in varying combinations and dosages.1.2

Ser-Ap-Es contains all the antihypertensive medication many patients will need.

And when the disage of each component corresponds to the closuges preestablished by individualized titration, Ser-Ap-Es may prove more convenient and more eco-

The basic drugs used in the VA studies - hydrochlorothiazide, reserpine, and hy-

dralazine - are original prod-

ucts of CIBA research. Note: Use Ser-Ap-Es cautiously in patients with advanced renal damage or cerebrovascular accident. Discontinue at first sign of mental depression.

Sor-An-

hydralazine hydrochloride 25 mg hydrochlorothiazide 15 mg

Priority blood counts are advised during promated therapy.

Indication in a serving a contribute to the parameter of the parameter of the contribute to the parameter of the parameter of

hyporatremia is life-inrestaning. In actual salt depiction, appropriate replacement is the therapy of choice. Tre-heisel elevations in pisama calcium may occur in patients receiving thie sides, particularly in those with hyperparathyroidism. Pathological changes in the parathyroid stand have been reported in a few patients on prolonged in lade therapy.

If they will be the patients on prolonged in the parathyroid in a sew patients of prolonged in a sew patients of prolonged in the patients. In the patients in the patient

unchanged. Latent diabelas may become manifest during thiazide administration.

Thiazida druge may increase lite responsivenase to lubocurarine. The anilhypariansive allects of the drug may be enhanced in the post-aympathectomy patient. This zides may decrease arteriat responsiveness to norapinephrina. This is not sufficient to practice affectiveness of the pressor agoni for thateness of the pressor agoni for thateness. If nitrogen relantion indicates onest of prograssivo renet impairmant, consider withholding or discontinuing diuratic thorapy.

Thiazides may decrease serum PBI

inorapy.
Thiazides may decrease serum PBI lavels without aigns of thyroid disturbance.
ADVERSE REACTIONE
Resarpina: Gastrointestinal—hypersecretion; nausee; vomiling; anorexia; diarrhea, Cardiovascular—sngina-like ADVERSE REACTIONS
Resarptna: Gasirointealinal—hyparsecretion: nausea; vomiling: anorexia;
diarrhea. Cerdiovascular—sngina-like
symptome; arrhythmias (particularly
whan used concurrantly with digitalis
or quintdino); bradycardia. Cantral
Nervous System—diovaliness; depression; nervousness; paradoxicat anxioty;
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symptome; CNS senaltization (manilastad by dull sensorium, doalness,
gleucome, uvellis, and optic alrophy).
Miscelleneous—iraquantly nesal congestion; prunitus; rash; dryness of
mouth; dizzinass; headacne; dyspnae;
syncope; apistaxis; purpura and other
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again; brasas angorgemant; pseudotoctation; gynacomastie; rerely water relention with odema in hypertansivo
patlants.
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ras ctiona characterized by deprassion,
discrientalion, or anxiety; hyparsonsitivity (including resh, uriticaria, prurilus, faver, chilis, arthraliga, ooshrophilia,
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Usual dosaga is 1 or 2 tablets t.l.d. For meintenance, a djust dosage to lowes! pallent requirement. Whan nacessary, more potent anthypertenalves may be added gradually in dosages reduced by at least 50 parcent.

Tablets (derk salmon pink, dry-coated), each conteining 0.1 mg reserpine, 25 mg hydralazine hydrochloride, and 15 mg hydralazine hydrochloride, and 15 mg hydrachloridhis zide; boilles of 30, 60,100 and 1000.

Conault complete literature before prescribing.

CIBA Pharmaceutical Company Division of CIBA-GEIGY Corporation Summit, New Jersey 97901



. . . brief summaries of editorials or comments in current medical and scientific journals.

Speaking of Peers

. . to keep re-certification from becoming the charade it threatens to be, some study will have to be undertaken to develop a profile of every specialty.

"As I see it, the only appraisal of the quality of my function in this profession worth pursuing would be on a far broader scale than any suggested so far. It would, of necessity, include a medical and surgical audit of my practice, but would also have to include a review of my acumen as a small-businessmaa, my impact as an administrator, my involvement as a citizen, my success at human relations, my public speaking ability, my grasp of social amenities, and my prowess as a handyman, since each has direct bearing on the total service I render to my patients.

"And this appraisal would have to be carried out by those like me . . . the medical-surgical administrative bustnessmen who also hold office, serve on committees, sit on hospital boards, get along with people and treat patients all in a day's work. We have been trying to do this for some years, and calling it 'peer review'. We dare not abandon the concept now.

"In ahort, I am perfectly willing to submit to a reappraisal, but only by someone who is truly my peer and someone who has some insight into who I am and why I am that man. ... " (Editorial, H. Gleen Thompson, M.D., Va. Med. Mon. 102:709, Sept., 1975)

Sickle Cell Counseling

"... Counseling for sickle cell is a process of basic education or giving information. It ought not to consist of giving advice. One major task of the sickle cell counselor la to be certain that the counselee understands what sickle cell trait is and what are its implications for his family. The other maior task of the aickle cell counselor is to help iadividuals work through the psychosocial impact of being informed that they have a genetic condition, Counseling la most efficient when other educational techniques are employed concurrently. These may include pamphlets, brochure, cassettes, films, and other media. It is very desirable that sickle cell counselors give their counselees some concise written material . . that they can take home and study . . .

"People with a number of different backgrounds may be good sickle cell counselors. . . . Indispensable characteristics are (1) sensitivity to the general problems of young adults, especially young adults from minority groups, (2) understanding of the impact that becoming aware of carrying a genetic condition can have on an individual, (3) a commitment to a nondirective counseling approach, (4) ability to assimilate the necessary factual material ... including principles of genetic transmission ..." (Article, Verle Headings, M.D., Ph.D., and Jon Fieldings, M.D., M.P.H., Am. J. Public Health, 65:819, Aug., 1975)

'Dashboard Knee' Repair Prevents Arthritis

COPENHAGEN-Repair the "dashboard knee" early, especially if ligaments are tom. Otherwise, collision of the knee with the dashboard in automobile accidents can lead to degenerative arthritis, orthopedists attending the World Congress on Orthopedics and Traumatology were told here.

Reporting on a study of 74 California highway accidents involving 222 people, Dr. Donald A. Nagel noted that "more serious knee injuries ocplied, or where it was concentrated to a small area of the knee, as occurs in contact with a protruding knob or steening column support.

"Degenerative arthritis was found to be a common development in the more seriously injured knees, particularly in those where the ligoments were torn and this condition was not repnired carly. However, it may be difficult, if not impossible, to determine initially if an individual case will develop this problem."

8 Severe Injuries

Dr. Nagel, who is Professor and Head of the Division of Orthopaedic curred in motor vebicle accidents where Surgery at Stanford University Media greater magnitude of force was ap- cal Center, noted that 57 of the 153 persons injured in the accidents sustained 80 knee injuries. Sixty-nine of did not cause major injury to the knee, these knee injuries, ia 48 individuals, were from contact with the dashboard.

The injuries were classified as either mild, moderate, or severe, in this study supported by the National Highway Safety Administration. "Mild" knee injuries showed bruises only, "moderate" involved skin lacerations and/or simple fracture of the patella, and "severe" injuries were defined as compoundlacerntlens and fractures into the knee joint, or tears of the cruciate ligaments,

Of the 69 knce injuries in 48 individuals, 51 were classified as mild, ten as moderate, and eight as severe.

"When the knee's point of contact was smoothly contoured sheet metal the dashboard usually deformed, and unless the forces were extreme," Dr. Continued on page 12

Wednesday! November 42, 1975 Greater Use of Prenatal Diagnosis Advocated

HARBOR SPRINGS, MICH.-Prenntal diagnosis is still not being utilized for 99 per cent of pregnant women who are at risk of having a child with some serious -and detectable-congenital disorder, Dr. Henry L. Nadler declared here.

The Northwestern University pedintrician and geneticist, a pioneer in the application of amniocentesis techniques, estimates that the numbers of patients seen at most centers offering intrauterine diagnosis have remained about the same over the past two or

three years. No other recent medical advance "with as much proof of efficacy as this one" has shown auch a time lag in its implementation, Dr. Nadler told a con-

the National Foundation-March of

Citing Indications for unmlocentesis, Dr. Nudler emphasized that screening for neural tube defects has now energed as a new and major entry on the list.

Elevated AFP

Not long ago, he commented, the single most common indication was the possibility of a chromosomul defect in the fetus, while a considerably smaller group of pregnancies was monitored cantly increased, he said, in at least 90 for possible inborn errors of metabol-

But Dr. Nadler said that today the cele. detection of congenital malformations

local est

ference on birth defects sponsored by -primarily, neural tube defects-is probably the second most common indication for performing amniocentesis.

Significantly clevated levels of alphafetoprotein (AFP) in the amniotie fluid, obtained between the 14th and 16th weeks of pregnancy, now can be considered a highly reliable predictor of open neural tube defects, the geneticist pointed out.

Although there have been some false positives and false negatives, he calls the AFP assay "an extremely useful marker." Elevations have been signifiper cent of open neural tube defects, either anencephaly or myelomeningo-

Dr. Nadler uses a combination of

ultrasonography together with amniocentesis and resulting AFP assay to diagnose the presence of neural tube defects.

Additionally, he holds the position that all pregnant women who undergo mid-trimester amniocentesis for prenatal diagnosis should be screened for AFP levels as part of the total proce-

How risky is amniocentesis itself? Dr. Nadler believes the risks are low if it is done by "skilled hands."

Data from collaborative studies will soon be made public, he said, but he reported that in his experience at Children's Memorial Hospital, Chicago, where some 700 to 800 pregnancies have been monitored, the incidence of spontaneous abortion among women undergoing amniocentesis has been approximately the same as in a coutrol population matched for age and parity.

The Chicago group has observed no signifiennt increase in any complications among newborns as n result of numiocentesis, he said.

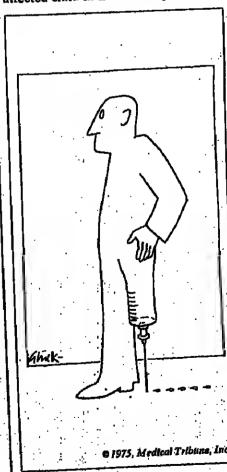
On the other hand, Dr. Nadler pointed out, the risk of giving birth to a child with serious congeuital defect is high for n number of women.

Down's Syndrome

For example, he noted that the woman aged 40 to 44 has a 1:100 chance that the infant will have Down's syndrome and a 2:200 chance that it will be affected by some chromosomal defect. The risk of Down's syndrome becomes higher than normal at any maternal age over 35, and is clevated for even young parents if they have had a previous child with the disorder.

For the woman who carries an Xlinked disorder like hemophilia or Duchenne's muscular dystrophy, there is obviously a 50:50 chance of a male fetus-and a 50:50 chance that a boy will be affected.

Dr. Nadler also cited estimates that the woman who has already given birth to one child with a neural tube defect has a 5:100 chance of bearing another affected child in her second pregnancy.



The familiar refrain of depression: morning fatigue... sadness... anorexia... insomnia

Now, Merrell offers Norpramin (dasipramine hydrochlorida tablets N.F.) to effectively relieve these common manifestations of depression.

Norpramin also provides additional benefits in treatment of your patients.

☐ effectively relieves physical, psychological and emotional symptoms of depression

☐ minimal daytime sedation important for patients who must be alert to perform daytime activities

☐ relief that may begin in 2 to 5 days - but full therapeutic effect is seldom seen before 2 weeks

☐ side effects rarely require discontinuation of therapy

Prescribe Norpramin to change the familiar refrain of depression in your practice.

Norpramine





Wednesday, November 12, 1975

The Only Independent Weekly Medical Newspaper in the U.S.

Medical Tribune

and Medical News

MODAY, AFTER A LONG PERIOD of dual physicians, rescurch scientists and

I silence, medical organizations are other organizations in the fight ta pre-

finally, standing up and speaking out serve patients' rights and the physician-

cal professian must shoulder an exten- more recently on the so-enlied Maxi-

sion of its historic responsibility-the mum Allowable Cost (MAC) regula-

... To Fight for Rights Is Not Futile...

and added its voice to those of indivi- physician-patient relationship.

A Sleeping Giant Awakens...

for the rights of patients and the pn-

At long last, the American Medicul

Association recognizes that the medi-

protection of the patient not only play-

sically and medically, but socially and

personally as well. The A.M.A., long

a sleeping giant, has finally awakened

five-year battle for the physicians'

rights in treating his diabetic putients.

. The Empire Stote Physicians Guild has

so far successfully chollenged the use of

triplicate prescriptions Identifying pa-

tlents receiving psychoactive medien-

tions in New York State. Most signifi-

cantly, in this case, physicians were

iolned in the court nation by the New

T is inonic that the defense of rights

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York Civil Liberties Union.

tient-physician relationship.

Housestaff Assn. Votes To Become Union

Continued from page 1 hundred-odd delegates broke into ap- organization in the Midwest. We'll have house officers can organize under fed-

three-year-old national house officers' did vote for unionization-which may organization, looked over at the group's be significant, since he is also alternate presiding officer, vice president Dan delegate to the American Medical As-Asimus, and sighed. "We've done it," he said. "We've done it!"

gates from local house staff associations ing) this year. across the country-had done was to

The delegates showed their approval their training institutions. "We have a of unionization again the following day fantastic setup at Akron General Hoswhen they re-elected Drs. Harmon and pital, and we don't need the PNHA Asimus to their posts. That voic too there," said perky Dr. Jean Szilva. was unanimous; the two house staffers "Everything we've asked for, we've were unopposed in their bids.

Year-Long Effort

the end of a year-long effort by PNHA to get a raise this year out of our disofficers, committee members, and staff. cussions. The hospital even paid for me They had begun their work almost be- to come here. fore the shouting died down at last year's Notional Assembly neceting, in down. And what we want most of all is Kansas City. There the house staff rep- to keep the status quo." resentatives set up two committees: one to study the PNHA constitution and make recommendations for changes, the other to explore taking a ride on the union train.

Within a matter of months, the two committees had become one, and the constitution and bylaws section spent its Ume researching the changes required by the National Labor Relationa Act and writing them into a new document, As a result, the constitution and bylaws were almost totally rewritten, and three quarters of the National Assembly's business in Washington involved deliberating over and passing on

Delegates to the National Assembly came to Washington prepared for the business at hand. When they learned that their local associations would not have to become formal unions-which they were reluctant to do in some areas to join the CIR and dilute us with and legally barred from in others-to small, weak groups." belong to the PNHA, they gave the move their full support.

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Co rua ory For adi

"It isn't as if we all came here sold on unionism," pointed out Dr. Dan Fink of Cincinnati General Hospital. "There's a wide diversity of opinion here, and we voted for this with a certain degree of trepidation. Now we have to go back to our local house staffs, and how they react will depend on how we present lt.'

Strong National Group

Some delegates, he said, worried about the possibility of PNHA domination of local groups. "Wa don't want our own organization to be PNHA Local 689. Still, it's necessary to have a strong national association." And the moderate, quiet-mannered Dr. Fink expects his hospital to have a delegation at the National Assembly meetlng next spring.

· Even well-established and well-organized house officers' groups may have to perform some continuing physicians'

sociation from that group's luterns and Residents Business Section, and plans What the two officers-and the dele- to run for delegate (with PNHA back-

Some National Assembly delegates pass the final resolution necessary for see no need for collective bargaining, or the PNHA to become a notional union. any sart of adversary relationship, with gotten. We've gotten due-process rights just out of meeting with the administration. We've gotten better oa-call fa-The passage of Resolution 15 marked cilities just by complaining. We expect

"We haven't needed thiags written

Still, Dr. Szilva supports the PNHA, whether as a coordinating group or as a union. "I don't know if we'll be able to," she said, "but I'd like to keep our nembership."

Obvious Step

For those who are already organized as collective bargaining uoits, the PNHA's becoming a union was only an obvious step, and they don't expect too much for themselves. "It'll only be minimal help, at least at the beginning," contended Dr. Irwin Abraham of New York City's tough Committee of Interns and Residents, whose huge delegatian had more than 40 votes. "The PNHA will continue to present house staff views at the national level. But the biggest help it'll be to us will be its organizing house staff in the areas sur-

PNHA president Harmon is a little less sanguine than are some of his delegates, "We'll lose some of the smaller house staff associations, tha ones that were only in it for information, where they paid \$60 in dues to send one delegate even though they had 20 members," he predicted. "But the new constitution has a full-membership provision-all our members will now have to pay dues for all their members, not just for the minimum number. So we'll have

a net gain ia PNHA membership. ordinating and facilitating organizaslender PNHA president believes that next spring's National Assembly. meeting, somewhere on the West Coast, his organization will have between 10,000 and 12,000 dues-paying mem-

One problem troubles the PNHA leadership. Though some 12 house staffs filed for recognition as collective unionism education on their menioris.
Sald Dr. Ian V. Jones of the strong and prestigious Association of Fellows at Labor Relations Board last spring, the four-man board short one member—

lens other than those at any house staff is reportedly deadlocked as to whether to vote on it, and I don't know which eral legislatian and, if so, whether they Dr. Robert Harmon, president of the way the vote will go." But Dr. Jones ean have their awn union or must juin with full-time attending physicians.

Un in the Air

As a result, the membership pravision of the new constitution remains up in the air. Two orticles concerning membership passed the National Assembly, one restricting the organization to house officers, the other opening it to the attendings, just to be prepared. Hut the question arises, what if the NLRB rules, as the Association of American Medical Colleges contends, that interns and residents are students and not employees, and therefore not permitted to organize?

"Well, it won't change much," said one PNHA officer. "We'll still have our new constitution and our membership strength. Many of our local affiliates are organized as unions under stote law, and that won't change. Maybo we'd even pick up some affiliates, because a ruling like that would really get house ataff mad."

AMA Relations to Continue

The PNHA National Assembly dccided, by a two-to-one vote, to enntinue its present relations with tha AMA. The decision, hotly debnted in reference committee and on the floor of the assembly, means that the PNHA will continue to endorse-and electthe officers of the AMA's Interns and Residents Business Section.

However, the new resolution makes explicit what has previously been un open secret. According to the measure the delegates passed, the IRBS "shall be considered as a committee within the PNHA structure." Furthermore, it requires that "the IRBS be totally necountable to the PNHA and procure the approval of the PNHA hefore deeiding any appointments or public statements,

The strong resolution, introduced by PNHA vice president Asimus, turned back a measure by the CIR's Dr. Richard Cooper that would have cut off any relationship between the PNHA and the IRBS. His resolution defeated, Dr. Cooper then turned around and accepted PNHA endorsement for the secretaryship of the IRBS.

No Scholarship Trade-Off

Delegates also emaseulated a resolution putting the PNHA on record as supporting the idea of scholarships "We've outgrown our role as a co- for a period of service in medically from the federal government in return tion," he continued. "Now we're going knocking these provisions from the completely to the PNHA." The tall, statement, the delegates disavowed PNHA health manpower legislation their president's congressional testimony last spring in favor of a bill containing such a trade-off for medical

Finally, the National Assembly declded to take no stand at this time on national health insurance. Instead, they referred a resolution that would have andorsed universal mandatory coverago, with no co-payments or deductibles, to committee to study the matter and report back next spring.



Caltech chemist Dr. Nell Mandel adjusts the gunlometer af an X-my difractonicter lie used to clucidate the simicture of uric acld crystals caus-

Nose Drop Route Improves Action Of Synthetic LHRH

BRATISLAVA, CAECHOSLOVARIA-The shart duration of action of injected synthetic luteinizing hormone releasing tormone (1.11R11), which has limited its use in diagnosing anterior phology incompetence and in producing ovulstion in sterile ond/or amenouheal women, can be overcome by changing the method of administration, a British investigator reported at an Interesthough Symposium on Human Reproduction here. Dr. W. R. Butt, of the department of clinical endocrinology, Blemingham and Midland Women's Hospitul, Birmingham, England, sald that the decapeptide can be self-administered by the patient as nase drops.

When LHRH is taken as nose drops, only about ong-tenth of the dose is absorbed. However, the equivalent parenteral effect is obtained by increasing the dose by a factor of ten, Dr. Butt said.

In diagnostle applications, the patient can herself, at home, maintain constant LHRH levels for several days before reporting for pitultary function tests. In therapeutic applications, the patient can self-administer the ding and follow basal body temperatures 50

A further possibility has arisen with the development of an analog of LHRH which has been shawn in patients to be four times as potent as the natural decapeptide, with three to four times the biologic half-life of the parent molecufe, Dr. Butt said. By combining nose-drop administration with the new analog, once or twice daily self-administrationa abould maintain maximum releasing activity.

ing gooty nethelits.

TTO STANO UP against "the govern- this issue. Some years ago when the I ment" and fight its impingement government was first infringing upon upon the rights of our patients and our the rights of scientific investigators to rights as physicians is, thank heavens, study hallucinogenic agents in animal not futile in our society. It is effective. research under conditions inconsistent Its effectiveness is attested by victory with academic freedom, the A.C.L.U. after victory when issues are finally did not choose to join the issue, Gavjoined. The Committee on the Curc of crument infringement of the rights of the Diabetic has successfully fought a science was soon followed by its inva-

putient relationship. In just a periad af

two court actions-one on review af the

patients' right to hospitalization, and

tions of the F.D.A. These actions are

to be commended. They should serve

as a continuing precedent of vigilance

in protection of patients' rights and the

months, the A.M.A. has undertaken

sion of the rights of both physicians and patients. All organizations truly devoted to the rights of failividuals, all scientific bodies concerned with a free science, all official boilies of medicine seeking to protect the rights of patients would do well to study enrefully the sequence of events which fullows a tack of vigi-One must commend the New York Innce and that which fullness a vigorous Civil Liberties Union for addressing struggle for human rights,

and other human rights.

This is the timo for physicians-inters has now, as a last resort, become a side of government as well as avisidelegal matter. It is also ironic that when to join with their colleagues in recogthe issues are clearly defined our courts nizing and acting upon the principle have repeatedly "slapped down" gov- that you cannot protect patients by deernmental Invasion of patient privacy stroying their precious rights. A.M.S.

The final sentence states that "A

er education." Note that the message of

the leading editorial on this page calls

on physicians to unite to halt the crip-

pling effects of federal and other gov-

ernmental Intervention in many aspects

More on Federal Interventions

THE OCTOBER 17 ISSUE of Science life of the universities is severe." For L contains an editorial devoted to the "severe," read "deplorable." It terms problem of federal intervention in uni- Ironic that a "government which is unversities. It notes that since the late able to manage its own affairs comfifties when "federal grants started to petently insists on spreading its own become a subatantial factor in univer- brand of inefficiency throughout higher slty budgets," government interference education." in academia has burgeoned so that "the universities are now forced to cope with laws, proposed laws, regu- could halt the federal crippling of highlations, proposed regulations, and authority-grabbing bureaucrats."

The Science editorial laments that although the laws are proposed and enacted for worthy purposes, their "impact on the financial and intellectual of medical care.

The Mortality of Diabetics

that of the well-controlled cases, indi- lag of a 20-year insurance study.)

CLINICAL QUOTE: "The mortality ratio eating that control is on important facof the poorly-controlled diabetics tor in the mortality of the diabetic." (Dt. was approximately two-and-a-half times George Goodkin, citing a major find-



"I think my dog has run off with another man."

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LETTERS TO TRIBUNE

Absurd Law'

f wish that you elaborate on this wonderful Mnnhattan Federal Court that reinstated the privacy of patients (MT, Sept. 3).

So that does eliminate the absurd law that New York State enacted whereby every prescription of the socalled "dangerous" drugs should be made known to the state authorities.

It seems also that this ruling may benefit patients all over the land, where you have state inspectora going behind the pharmacist's counter to sec, suspect and decide if the nature or frequency of prescriptions written in the judgment of the physician fits with their own convictions. Was is not [the late] Narcotica Commissioner Anslinger who sald once that an action of this kind by anarcotics agent will draw a mandatory sentence of three years?

Thank you for your good reporting. HENRI RATHLE, M.D. Mobile, Ala.

Mulpractice Service

I read with dismay the letter of Dr. Sidney A. Bernstein (MT, Sept. 24) , Dr. Bernstein accused me and my service of contributing to the mnipractice problem. This allegation arose from foundation of ignorance, for Dr. Bernsteln has no understanding of the nature and function of our organization. nor did he bother to inquire.

National Medical Advisory Service is a physician-run screening panel designed to evaluate medical liability cases for defense and plaintiff attorncys. Fifty per cent of our cases come from defense council. Very often we can successfully assist our colleagues; at times we cannot. At least 60 per cent of the cases which we evaluate for plaintiffs are determined to be without incrit. We have been remarkably suceessful in dissuading prosecution in those cases. This is our most valuable function. Without a service such as ours the nucliently unive attorney will grope aintlessly, file suit needlessly and be driven underground into the arms of the few unscrupulous medical people of whom we are all aware. Lawyers need competent advice if this trend is to be stopped. Our introductory letter, which Dr. Bernsteln found distnsteful, is one way to alert the attorney that competent medical advisors are available.

I am afraid that it is those physiclaus who recoil at the word "malpractice" and hide when a lawyer calls who have most fueled this problem. Plaintiffs and their attorneys have no medionl expertise. We well-trained, ethical physicians must willingly review their problems if we are to return loirness to medical litigation.

RONALN E. GOTS, M.D., PH.D. Medical Director National Medical Advisory Service Washington, D.C.

Not a book review, Book Blopsy ex- ment of joint lesions in this disease. tracts from the book itself o few quotations to show its charocter.

Rheumatology: An Annual Review. Vol. 6. Immunological Aspects of Rheumatold Arthritis, Series Editor: J. Rotstein, Volume Editors: J. Clot. nic community J. Sony. Published by S. Korger.

> evidance has been gathered indicating that rheumatold arthritis is closely associated with immunological abnormalities. The infiltration of synovial membrane with mononuclear cells. including plasma cells aynthetising immunoglobulins, tha formation of lymphoid aggregates in the synovium and an ever increasing number of abnormal immunological findings have served to sustain and to strengthen the now common view that immunopathological. processes directly underlie the develop-

...an International Symposium on

Immunological Aspects of Rheumotoid Arthritis was held in Montpelller (France) from 28 to 30 March 1974. Sponsored by the 'Société française de Rhumatologie' and the 'Institut national de la Santé et de la Recherche médicale', this meeting grouped more then 200 workers from 20 countries.

"It was organized into aix sessions on the main topics of Immunopathology of rheumatoid arthritis: immune complexes and complement, cell-mediated hypersensitivity, antiglobulin faators, macrophages B and T cells, experimental immunological models and infectious agents.

"This book consists of material presented during the symposium and is meant for a review of more recent immunological data concerning rheumatoid arthritis."

NONPRODUCTIVE COUGH



SPECIFIC RX: HYCOTUSS

Because specific symptoms require specific theropy, Hycotuss® Expectorant was formulated to speclifically treat nonproductive cough associated Adults 1 teaspoonful every four hours, offer medis and a with respiratory tract congestion.

Hycotuss® Expectorant contains hydrocodone blitartrate, a highly effective onflussive, and alveeryl gualacolate which acts to liquify and dislodge viscous secretions in the bronchi.

Usual Dosaga:

Children (Over 12 years) some as adults. (2 to 12 years) 1/2 teaspoonfut every four hours and at beditme.

Note: Telephone Rx's may be refilled 5 times within 6 months. †Telephone Rx's permitted in most stales,†

Reileves persistent coughing while it helps liquify bronchial secretions

ACTIONS Hydrocodene is a centrally acting natrotic anti-tussive providing cough relief for up to 8 hours. Glycaryl gualocolate exerts lis expectarant action by producing a less viscous exudate thereby facilitating lis exputation. INDICATIONS Indicated for the symptomatic relief of coughs. Especially useful in unproductive coughs asso-clated with upper and lower respiratory tract congestion.

CONTRAINDICATIONS HYCOTUSS® Experienced should not be used in potents with hypersensitivity to hydrocodone or glyceryl guolocolote.

glycaryi guolacolate.

WARNINGS HYCOTUSS® Expectorant should be prescribed and admiristrated with the same degree of caution appropriate for the use of other cord narodic-containing medicallors, since it can produce drug dependence and, herefore, has since it can produce drug dependence and, herefore, has since it can produce drug dependence and, herefore, has since it can produce drug dependence and, herefore, has since it can produce drug dependence and, herefore, has since it can produce drug dependence and, herefore, has since it can produce drug dependence and, herefore, has since it can produce drug dependence and, herefore, has since it can produce drug dependence and, herefore, has since it can produce drug dependence and, herefore, has since it can produce drug dependence and, herefore, has since it can produce drug dependence and, herefore, has since it can produce drug dependence and the use of the can be useful in removing unabsorbed distributed to a cord may be of benefit.

Children over 12 years 1 2 converted as needed to medical converted as needed to medical deprivation dependence and the use of the can be useful in removing unabsorbed distributed as hydrocodenic, 0.3 ing/kg/24 has, divided into low.

CRUB INTERACTIONS The definition nervous system depressors, See with that of other central nervous system depressors, See which is of other central nervous system depressors.

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ADVERSE REALTHORS Agreese reactions, when they occur, include sedation, naused, vanishing and constitution. DOSASE AND ADMINISTRATION HYCOTUSS® Expectation should be laken after medic and at beatime, not less than 4 hours apart, "realthen should be started with the suggested indical dose and subsequent doses objusted if required.

Usual Doedge	SYRUP teas	poonful (5ml	
Adults	Inifial dase	Maximum singis dose	
Children over 12 years	1	8	
2 to 12 wors	16	.: 20	
under 2 years	Dosoge shou	ild be calcu	

neously with efforts of respiratory resustances foots, smallip-duration of cathor of improcedars may exceed that of the anticipantst, the patient should be kept under continued sur-pationized as needed to maintain adequate should be completed as needed to maintain adequate respiration. Coxygen, introvenous fluids, vasionessors and other sup-portive medicules should be employed as indicated, Gostric employing may be useful in removing unabsorbed days. Activated character may be of benefit.

Early Repair of 'Dashboard Knee' **Prevents Arthritis**

Continued from page 8 Nugel said. "Even with high forces the knee would occasionally receive only a bridse, while a fracture of the femu, or dislocation of the hip, would be the more serious pathology.

"If the knee impacted a rigid steer. ing column support, a sharp edge of the radio, or an lustrument panel knob, there might be a Inceration, or a factured patella."

When forces were applied to the knee from several directions simultaneously, the result was o fracture of the tibini pintcau. For example, "The knee of one occupant sustained a tangential force and was tropped under the dashboard, while at the same time it sustained nn oxiol force from a buckling floorboard, producing minor displacement of the medial plateau.... In two of our younger patients, tears of the posterior crucinte ligament occurred when major force was applied perpendieularly in an unterior-posterior diection to the proximal tibia."

Sports Cars

Another problem, especially in sports cars, is trapping of the leg below the dashboard, with hyperextension of the knec from the contact while the body is going toward the windshield. This may olso tenr the posterior capsule and cruciate ligament. If, in addition, the legs or upper body are rotated, "valgus or vierus strains are produced which can injure the structures on the medial or lateral side of the knee."

Two of four severely-injured knees and one classified as mild showed degenerative arthritis on follow-up oneand-n-half to five years postaccident, Dr. Nugel continued. The "mild" injury, however, may have been more severe than originally believed.

Automobiles should be equipped with "n) n brond deformable, lower dashboard that the right front seat pussenger's legs could not slip under; and h) lower dishboard padding to provide protection against a second collision of the driver's knees against a rigid steering column support, or sharp object under the dashboard," Dr. Nngel suggested. "While seat belts should be worn, some car occupants suffered knee injury desplie their use, elther because they were applied too loosely or because they stretched on impact. One severe knee jajury alsooccurred to a belted passenger when the force of the collision pashed the dashboard back against the knee."

Circumcision No Hel Medical Tribute Report

EVANSTON, ILL. Finding no evidence that circumcision prevents penile or prostate cancer or lowers the incidence of VD, an American Academy of Pediatrics task force has concluded circumcision is not essential to adequate total health care. "A program of education leading to continuing good personal hy-gions would offer all the advantages of routine circumcision without the siten-dant surgical risk," says the AAP.

FDA Chided for Withholding Anti-Asthma Steroid Aerosol

Continued from page 1 not augment systemic steroid levels or suppress endogenous cortisol.

In the latest report by the British multi-center group, the use of inhaled steroids by 75 patients who were starting long-term corticosteroid therapy for the first time was shown to "control asthma as well as did oral prednisone." In contrast with the 30 per cent incidence of systemic effects in patients on oral prednisone, the only side effect in the group using the inhalants was a 5 per cent incidence of symptomatic oropharyngeal candidiases. There was no evidence of fungal colonization of the bronchial tree, the British team said io its report in Lancet, September 13,

As Good as Predntsone

"By both the subjective and objective criteria used in the assessment of the control of asthma, both inhaled beelomethasone dipropionate or oral betnmethasone valerate did as well as the standard drug, prednisone," the investigatora reported. The studies have shown that a daily dose of 400 micrograms of inhaled drug was approximately equivalent to 7.5 mg. daily of

Overall, 18 per cent of the patients in the prednisone group had to be withdrawn from the trinl because of unwanted systemic effects, and another 15 per cent experienced side effects that were oot severe enough to wnrrnnt withdrawal. In contrast, only one patient on inhaled corticosteroid was withdrawn, because of edema and an increase in weight.

Systemic Steroids Also

The British group stressed, however, that in the management of asthma exacerbations, systemic steroids will usnally be needed as a supplement to nerosol therapy.

Dr. Clark said the drug's mode of action appears to be "very much a surface activity, as judged by the vasoconstrictive effect when it is applied to a subject's skia. The high surface action means that the dose can be delivered effectively to the lungs. What is absorbed in the GI tract is metabolized."

"Our present information suggests that the drug's limitations as a ateroid in asthma management are that it can't be used in high doses or in status asthmaticus," he continued. "It's thought that, in status, the airway obstruction is so bad that the aerosol won't get into the lungs, Its most valuable role, currently, is as a systemic steroid-aparing agent. Patients on high doses of steroid can be brought to a range where the systemic side effects are reduced. In others, it can replace oral therapy eatirely."

The British expert politely chided the Food and Drug Administration for what he saw as undue prudence in delaying approval of beclomethasons.

"Hopefully, with the widespread use of beclomelhasone in the rest of the Western world-as well as the Englishspeaking Pacific nations-the F.D.A.

should coole to a speedy conclusion as to its efficiecy," he declared. "It has been reviewed and approved by the regidatory agencies of the U.K., Austradia and Canada, to name only some, and there should be enough evidence on which the F.D.A. can base a judgment, If not, the F.D.A. ought to advise the other regulatory agencies what to look for, because the F.D.A.'s hesitation suggests that the other ngencies have been remiss to some important re-

The drug was developed by Allen & Hanburys Research Ltd., England,



"Child life" therapists, such as Lurinda Mollahan, shown abave comforting three-year-old traffic accident victim Troy Shrum, help allay anxiety and apprehension in pediatric patients hospitalized at the Health Sciences Center, University of Oregon, Portland, through supportive daily visits. The therapists are not nurses but are assigned to the nursing staff.

Medical Tribune Singing for sexual liberation page 28 **Pedlatricians** rate sex education for teens ---

watch for the November 19 issue of sexual medicine today

confidentiality and the teen-age girl-15-year-old Suzanne is pregnant You've just told her so. "Don't tell my-parents," she begs, "they'll murder me. Anyhow," I'm getting an abortion so they won't ever know." Won't they? Should they? As the attending physician, what would you do? Are you anxious about your own confidentiality and reputation in your community?

the problem of treating homosexuality—Despite greater toleration of homosexuality as a variant lifer greater toleration of homosexuality as a variant lifer style, physidians are cometimes consulted by homose style, physidians are consulted by homose style, physidians are consulted by homose style, physidians are their orientation. But the complete style shares his ploneer in the consulted by the consultation of the consult

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MEDICAL TRIBUNE

30 per cent

21 per cent

23 per cent

14 per cent

The Importance of Being Earnestly Critical

A Follow-Up Report on the Effect of Treatment of Diabetes on Cardiovascular Disease

By DR. RICHARO GUANER Clinical Projessor of Medicine
State University of New York Downstole Medical Center, Brooklyn
Associate Editor, Medical Tribune

THE UNRESOLVEO Great Diabetes Polemic might well be an appropriate sub-1 stitute designation for U.G.D.P., abbreviation for the University Group Diabetes Program. Since the report first appeared in 1970, there has been continuing criticism and controversy concerning the design of the trial, validity of the data,

clinical trial was as follows:

These figures compare with 6 per

cent developing cardiovascular disease

in control subjects. The Swedish iaves-

tigators conclude, "Judging from our

results, borderline diabetics have a

higher frequency of cardiovascular

complications than controls, and anti-

diabetic treatment of borderline dia-

betes may prohibit and postpone the

development of cardiovascular dam-

age." This report directly controverts

No Adverse Effects

and-a-half-year follow-up is that of Dr.

don and Director of Metabolic Medi-

port on long-term treatment with tol-

butamide (1 gm. daily) administered to

248 borderline diabetics in a placebo-

controlled, randomly-allocated, double-

blind study had shown "ao hints of ad-

verse effects in respact of total mortal-

ity, of mortality attributed to cardio-

demic Press, N.Y. 1973, p. 571). Hls

current survey, presented this August

in Washington, shows significant ad-

vantage to the tolbutamide-treated

group in respect to cardiovascular com-

plicationa, i.e. angina, infarction, de-

velopment of electrocardiographic ab-

normalities. He decided that the flad-

lngs in the eight-and-a-half-year analy-

sis supported the coaclusiona regarding

"possible beneficial effects of tolbuta-

mide and absence of adverse effect,

Dr. Keen reported similar findings in

a group of 204 civil aervice patienta

follow-up, "there were algnificantly

drawn from earlier analyses,"

No treatment

Dict-placeho

Dict-tolbutamide

Diet only

significance of the conclusions, manner in which the findings were presented to and dict-tolbutamide (1.5 grams daily). physicians and public, ethical questions The incidence of cardiovascular comof bias potentially prejudicing the report, and proposed F.D.A. regulatory strictures on the hypoglycemic agents studied, specifically tolbutamide and phenformin-with even broader regulstory scope in prospect.

The five-year travail has eclipsed the trial itself, which was designed to evaluate "the effect of hypoglycemic agents on vascular complications in pntients with adult onset diabetes." All of this has created n climate of confusion for the clinician and has left him without clenr guidelines in treating diabetic patients.

As stated in a recent editorial by Dr. Sol Sherry in another context (New Eng. J. Med. 293:300, Aug. 7, 1975), "No therapeutic trial has escaped adverse criticism...at issue, as in all therapeutic trials, is the probability of the accuracy of the conclusion." The accuracy of the conclusion that hypoglycemic drugs have an adverse effect on cardiovascular mortality was first challenged by this writer, largely on the basis of the paucity of the U.G.D.P. data (Current Opinion, MEDICAL TRIBUNE, Sapt. 7, 1970). Controverting experience was cited from a much larger insurance mortality investigation at the Equitable Life Assurance Society of the U.S. (Goodkin, G., Wolloch, L., and Gubner, R., Diobetes 16:525, July, 1967). The Equitable Life study has now been updated by Dr. Goodkin (Mortality Factors in Dlabetes-A Twenty Year Mortality Study, J. Occup. Med. 17: 716, Nov., 1975). Thia comprisea by far the most extensive investigation of prognostic factors in diabetes ever carrled out. The study includes all dia-betics, numbering 10,538, who applied for insuranca at the Equitabla between the years 1951-1970, with a total of 1,478 deaths. No Increase in deatha dua to cardiovascular disease was observed in diabetics receiving hypogly. cemic drugs compared to those managed with diet alone. Accordingly Dr. Goodkin concludes, "Our data are at variance with the findings of the U.G.D.P. program."

Other New Studies Controvert U.G.D.P. Findings

AT THE RECENT annual meeting of the American Diabetes Association in New York City this June, Dra, S. Carl- fawer events of non-fatal myocardial not only in the acute manifestations of angiopathy." strom, G. Persson and B. Schersten of Infarction in the phenformin than in the diabetes as has long been recognized, "Anti-diabetic Treatment in the Prevention of Cardiovascular Disease of Subjects with Borderline Glucose Tol. trocardiographic deteriorations (17.4 erative lesions are due to the recently erance." Their investigation comprised per cent vs. 31.8 per cent)." No eleva- elucidated sorbitol pathway or hor-

Dr. Keen concludes, "We are not alone in finding indications that the oral antidiabetic drugs subjected to trinl (tolbutainide and phenformin) offer significant advantage compared with placebo. Nor are we alone in failing to confirm the adverse effects reported by the U.G.D.P." He obsarves further, "Our findings are in accord with all other published findings from controlled, double-blind, random-allocation, prospective trials of the substances, with the single exception of the mortality findings of the University Group Diabetes Program."

Is Control of Blood Sugar Worthwhile? Newer Concepts

THE PURPORTEO and controversial adverse cardiovascular effects of the oral hypoglycemic ageats have obfuscated the stated primary purpose of the U.G.D.P. study, namely to test "the hypothesis that blood glucose control delays or prevents the development of vascular complications in patients with diabetes....The results of the U.G.D.P. ..did not demonstrate a beneficial ef-

fect associated with variable degree of lowering of blood glucose by any of the hypoglycemic agents considered." (University Group Diabetes Program) Dias betes, 24:65, Suppl. 1, 1975.

fa it then futile to attempt to control the blood sugar level, which has been the U.G.D.P. findings, and it merits the keystone of therapy in dlabetcs careful analysis as the full data become since, and even before, the discovery of insulin? When the oral hypoglycemic sulfonylureas were introduced in the nineteen fifties they gave promise of Another Investigation which has being the greatest advance in the treatbeen newly updated to provide an eightment of diabetes since the advent of insulin thirty years earlier. And when study indicates that 'good diabetes con-Harry Keen of the University of Lon-It developed that tolbutamide and other trol' inhibits to some degree the develsulfonylureas sensitized the pancreatic opment of dinbetic microangropathy. cine at Guy's Hospital. His earlier rebeta cell enhancing release of insulin, a physiologic rationale for their use ap- blood sugar hour by hour, between peared established. Accordingly, the meals, each day of life-might perhaps U.G.D.P. report that patients on tolbutamida fared worse than those on threly, but in practice this is very rerely Insulin appeared inexplicable, since the possible, if ever....Good diabetes conaction of tolbutamide appeared to be trol probably inhibits the development mediated through insulin. The infervascular cause or of mortality attributed ence could be drawn, as indeed it has little attention has been directed toward to coronary artery disease." (Kean, H. been, that insulin itself contributed to the problem to make any definite sisteet al, in Early Diobetes, Ed. by R. A. Camerini-Davalos and H. S. Cole, Acaatherosclerotic complications of diament possible, . . . Angiopathy studies betes. Why the biguanides, i.e., phenformin, should also have an adverse sels to be correlated with blood glucose, effect on cardiovascular mortality, as per the U.G.D.P. findings, would be blood lipids." further enigma. Phenformin, like toldue in considerable measure to inhibition of glucose absorption from the gut. The common denominator of these differently acting agents, as well as in-

Control Essential

sulln, is to lower blood sugar.

the focus of interest and research in the similar placebo capsules. In a five-year davalopments have only reaffirmed that placebo group (3.3 per ceat vs. 10.4 but also in helping prevent degenera-per cent) and also a significant lower tive complications such as angiopathy. auggested, the newer concepts implicit-



Brass and steel acarificrs, like the one above owned by Dr. E. R. Squlbb and now in the Squibb Museum, Princeton, N.J., were used la the inid-1800s for smallpox inoculstions. The 12 double-edged lauceis of the egg-slzed scarificr adjusted to graze the skin or cut 3/16 inch deep.

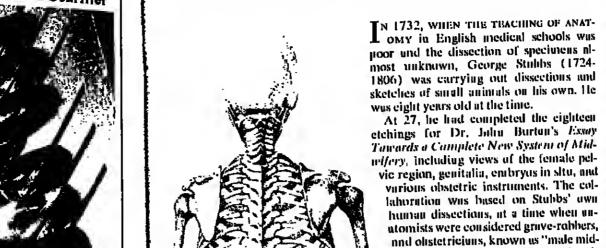
ly and explicitly dictate control of blood sugar.

Writing for the American Heart Asacciation's publication, Modern Concepts of Cardiovasculor Disease (43: 103, August, 1974) Dr. Knud Lundback of Aarbus University, Deamsrk, acceptable clinical and experimental Complete control-meaning aormal while true obliteration is related to

Dr. Roger H. Unger of Southwestern butamide, lowers blood sugar, but by a Medical School, in presenting the different mechanism, which appears Banting Memorial Lecture at the recent annual meeting of the American Diabetes Association, used no less trenchant terms in stressing the importance of controlling hyperglycemis: "Nature, through the coordinated secretion of insulin and glucagon, makes a formidable, and in most humans a Blood sugar and insulia are ao loager remarkably successful, effort to avoid hyperglycemla throughout life. These ed with phenformin (50 mg/day rapidly expanding knowledge and conhumans virtually always escape microtimed disintegration capsules) or with cepts of diabetes. Nonetheless, newer angropathy, whereas those humans in whom nature fails in its efforts to avoid hyperglycemla usually develop micro-

In addition to inhibiting diabetic angiopathy, control of the blood sugar. frequency of Minnesota-codable elec- Whether angiopathy and other degenerative lesions such as cataract formaan eight to 10 year follow-up of 578 tions in blood pressures were observed monal factors such as hypersecretion D. Ward and coworkers in a study at monal factors such as hypersecretion D. Ward and coworkers in a study at tion in the lens and the widespresd lesions of diabetic neuropathy. Dr. J. subjects divided at random into four in the phenformin tested subjects as re- of growth hormone as has also been London's Guy'a Hospital Medical Continued on page 22

The Living Cadavers of Anatomist George Stubbs



In 1758, Stubbs began dissecting horses. It is said he could carry a

Posterior view of human skeleton, left,

shows Stubbs' accuracy of observation and

his remarkable skill in demonstrating the

curvature of the spine. Note also twisting

low, fetuses in ptero, showing various

of the radius over the wina. Above and be-

faulty presentations, one of which is being

corrected by an instrument. In crowded

wives," were required for modesty's

sake to wear women's clothing during

IN 1732, WHEN THE TRACHING OF ANAT- carcass on his back up a flight of stairs. ing a key of lettered parts. With no antiseptics, he relied solely on cold weather and perhaps vinegar to prevent decomposition during the six to eight weeks of study on each specimen.

Stuhbs' methods compare closely with those of Dr. Bernhard Siegfried Albinus, Professor of Anatomy and Surgery at Leyden, and author of the famous Tabulae Scelett et Musculorum Corporis Humani, published in 1747. Both used grids of string on wooden frames placed at intervals from the subject to establish correct proportions, and both referred to a skeletun to correct for distortions inherent in dissection. The two anatomists also avoided labeling the finished drawings by provid- by David R. Godine, Boston.

ary in its intention. The "living cadavers" shown here, along with scores of others, have recently been reproduced along with his texts in a large volume of Anatomical Works, published

A Comparative Anatonical Exposition

of the Human Body with that of a Tiger

and a Common Fowl was Stubbs' last work .

and the consumnation of his lifelong de-

votion to scientific materical representa-

tion. Like his friend Dr. John Hunter's

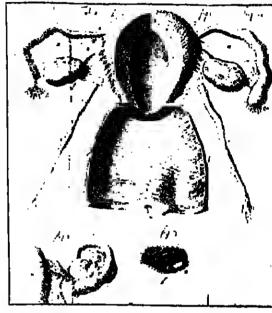
great collection of prepared specimens

and dissections, arranged to show develop-

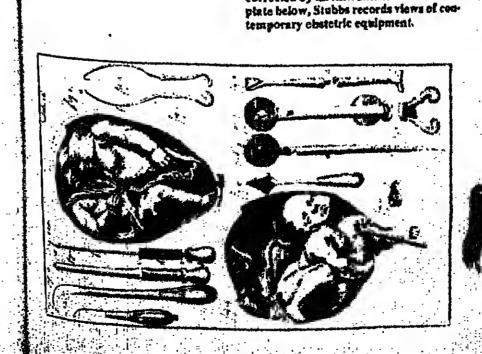
mental changes in various organs, Stubbs'

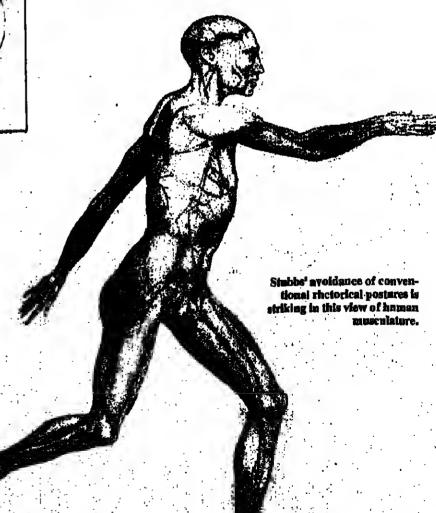
comparative anatomy is clenry evolution-

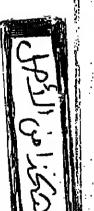
Diagram of internal female genitatia, partly dissected, with detail of Fallopian tube around overy and a dissected ovary. Stubbs was 27 at the time,











WAYNESVILLE, Mo .- The high number of psychiatric residents who are either terminated or drop nut of training programs because of emotional difficulties remains o major problem, according to a study by the American Association of Directora of Psychiatric Residency Training (AADPRT).

An organizational task force, which included Dr. Andrew T. Russell, director of the department of psychiatry at Leonard Wood Army Hospital near here, found that 26 per cent (68 out of 259) of the first, second, and third year residents who left training programs during the 1971-72 academic year did so because of emotional dis-

enough to warrant further investigation," Dr. Russell told Meoical Tria-UNE, adding that the scarcity of comparative data on dropout rates in other resident specialties might bring criticism of the AADPRT study from others in psychiatry.

Highest Suicide Rate

"Indeed, some may even find the results encouraging. However, when 26 per cent of the psychiatric residents who leave their training do so because of emotional problems, then I would say there is some cause for concern," he said, pointing out that four of the dropouts committed suicide. This translates into a suicide rate of 106 per

"We feel the problem is important 100,000-the highest known rato for any medical specialty.

MEDICAL TRIBUNE

The study included 3,737 residents in 207 of the 251 active psychiatric residency programs in the U.S. and

The findings suggest that most problem trainees don't just drop out of sight, never to be heard from again.

"We found that almost 30 per cent of the 68 residents who dropped out transferred their problems to onother psychiatric residency program; nbout 24 per cent were practicing medicine; 7 per cent switched to another resident apecialty and only 3 per cent dropped out of the profession completely," Dr.

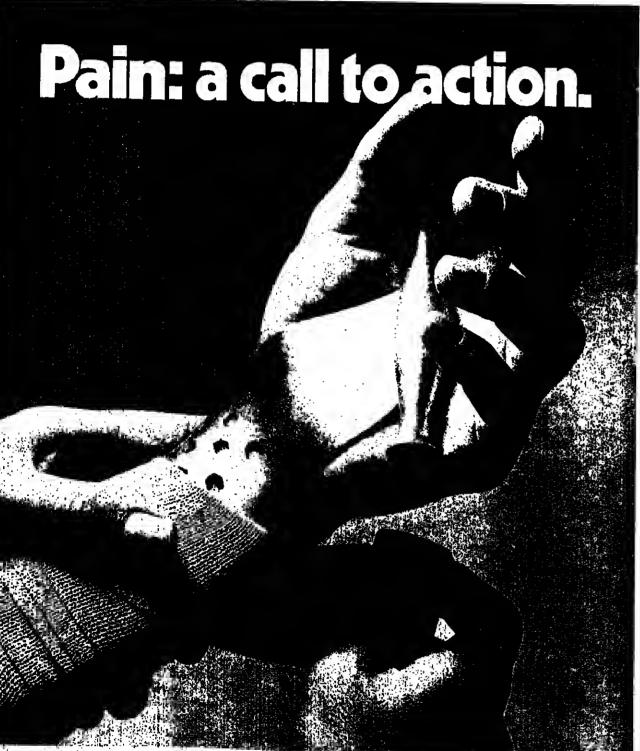
The atudy also revealed that another

220 residents troubled by emotional problems or marginal performance monaged to stay in their programs. Although three quarters of that group were ndvised to enter psychotherapy, nnly hnlf did.

"Of the 220 who did stay in the prngrnm, 37 per cent did very well in the end; 48 per cent performed marginnly, and 15 per cent performed poorly," he said.

Ninctcen of those who did not complete the program left or were terminnted because of ocademic difficulties. with no diagnnsis of emotional Illness. und onother five left for other reasons. including unethical behavior and family demanda.

Conducting the study with Dr. Russeil were Dr. Robert O. Pasnau, Professor of Psychiatry at UCLA; and Dr. Continued on page 20



☐ rapid acting

¹□ one tablet q.6 h*

- ☐ effective, reliable oral analgesia in moderate to moderately severe pain
- ☐ oxycodone, the principal ingredient of Percodan, is one of the more readily absorbed oral narcotic analgesics

See facing page for Brief Summary

*See dosage and administration section of Brief Summary

Whenever an APC/nancotic is indicated.

Whenever an APC/narcotic is indicated.

Percodan @

Each yallow, stored labelet contains 4 58 mg corycofone XID (Weering May be hable learning). B 38 mg corycofone tereproheles (Warring: May be habit forming). 724 mg aspiring, 160 mg phenejeths and 37 mg celleine INDICATIONS: Forthersfiel of moderato is moderately sweet point CONTRAINORCATIONS: Hypersensitivity to anyrodors, asprilin, phenes

with or calleges. WARNINGS Prog Dependence: O systems can produce any dependence of the morphism type and, therefore, has the potential for being abused. Provide dependence, physical dependence and tolerence may desaite upon reperted administration of Percoders, and is should be prescribed and administration of Percoders, and is should be prescribed and administration with the same degree of student appropriate to the use of other and harrotic containing medications. Let orthis percode containing medications, Percodes in a subject to the Foderal Controlled Subsector Act Desay in amendment of potentially harrotic and or physical abilities required for the performance of potentially harrotics much software proper attrop mechanism. The peliect using Percodes should be assistant a specialistic.

other norcotic analyseiss, general anesthetics, phenothistines, other bra-quillars, addered hypotics or other CNS depressions (including absoluti incommonately with President may subhist or additive CNS depressions When purk-combined therapy is contemplated, the dose of one at doth agents about

surb combined the apy is contempured. We was not been established relative by selected an account of the selected to pay the account of the selected relative to pay this access effects on later development. Therefore, Partodes should not be used in program was never onless, in the pulgment of the physician, the potential beautiful out, and not appropriate that potential beautiful out, and not applied the partode of public selected to shiften.

Uses in children Partodon thought at be administered to shiften.

condition

Special sist patients: Parcoden should be given with certical to certain per
limits such as the elderly or stabilitated, and those with severe impairment of
hapatic or rannal function, hyperhymidism, Addison's disease, and provide
hypertrophy or examinal stricture.
Phasescal in has been reported to damage the kindneys when taken in essen-

program.

DOSAGE AND ADMINISTRATION: Besign should be adjusted according to the serverity of the pain and the response of the patient. It may occariously be necessary to accord the usual decays recommended before in cases of some servere pate or in those patients who have become tolerant to the analyseic affect of manufact. The cases additions is one tablet away art bours at needed for pain.

period for pain.

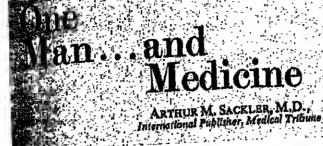
DRUG INTERACT IONS: The CRS depressant effects of Paccolar very be addition with their orders CRS depressant. See WARNINGS.

Applying many universe the privace of anticooperate and inhird the other CR

whosen's agents. Management of overdosabe: Signs and Symptoms: Serious excelor with Parcolan is characterized by respiratory depression, entress sorted larce progressing to stoppe or come, sharted model larcely cooking characterized by the state of the state of the state progressing to stoppe or come, sharted model installer, cold and characterized the state progression and the state of the state progression and the state of the st

telicylate leterication. Frankrai: Primary attention should be given to the repeloidistant of ade granters. Primary submitter should be grained all regions and the institution of easisted or controlled verofitation. The sarrolle minimization of easisted or controlled verofitation. The sarrolle minimization of easisted or controlled verofitation. The sarrolle minimization which may resort from everoficative or streams sensitivity is senselled, including propriems. Therefore, as appropriate done of most them encapealists about to endemnisted, senselled and extensive the submitter streams the streams muta, simultaneously with allocal at require they exceed that of the extensive the stream of science and expendent and streams and the sarrolled and service of the sarrolled and service and the sarrolled and the sarrolled and service and servi

Endo Laboratories, Inc. OF THE



Welderday? November 12, 1975

On Sex

CROWTH AND REPRODUCTION are two of the fundamental characteristics of life-G logic, apparently, is not. In great mensure survival of the individual is dependent on nutrition. The perpetuation of most species relutes to sexual or, mure precisely, reproductive performance. instance, communication can mean in-

In the face of such biologic imperastant fanic. For those whn seek to identives, consider the illogic of him who tify their patronymic with a syndrome, calls himself homo sapiens-whose sciall that is needed is to relate a sexual entists man institutions with few if any deficiency either with an identifiable research programs on the biology of virus or, failing that, a vitamin deficiency. The reward will not be personal sex and, in some countries, even fewer courses in nutrition than existed a score alone; sexology would enter all the or so years ago. Consider the illogic inhalls of academia via the portals of hereot ia some current governmental immunology or metabolism. priorities in the light of the present era of scientific and technologic change; true revolutions which boggle the mind. sexology is limited to an axiom which We can place a man on the moon and is familial in distribution and ephenicral bring him back, but we still cannot (or in duration; at home we call it The more precisely do not) properly feed him and his children here on earth. Consider how much we know of the Quantum, one uniquely applicable to metabolic and physiologic function of sex humor-"the fewer the facts, the men in space and how little we know more the fun." Sex jokes provide the of his performance in bed.

Missing Studies

Love and love-making have a vast litersture, in fiction and in poetry, in myth and In music. A cursory review of the medical literature on sex, on the other hand, reveals that a neuroendocriaologic, psychic and metabolic corpus is conspicuous by Its absence.

As so often happens when the medicsl profession fails to anticipate or recognize legitimate patient desires, others less qualified will engage and expiolt socisly and scientifically valid needs. As a result, "sex" has become merchandized in every way, shape and form, distorting realities and expectations. What we are witnessing is not a sexual revolution, for this is not true for the bulk of the world's population, not even for those developed atates in which this "revolution" is so loudly trumpeded. We are witnessing a revolution of social expectations. As a result of this revolution, peoples and patients can understand the "right" as well as their desires for sexual health.

Injunctions and Admonttions

Esrly reports on sexual function, such as wall inscriptions in Magdelanian and Pre-Magdolanian caves, are not yet deciphered. Following Guttenberg, as illerature was made more are a aine qua non for developing available by printing with moveable states. In its sponsorship of nutrition type-a late Western rediscovery of an and sexology programs, it may help estiler Chinese technical innovation - bridge the gap in the medical research there was a wide dissemination of in- and curricula in most developed as well junctions and inhibitory admonitions as developing states. Those participatwith little supportive data or counterbalancing informative assistance. Tonears in the field of sexual medicino day, thanks to the transistor, we have but the different disciplines whose coninstant communication, world wide, of tributions will be essential if the requia body of knowledge which until the site research and training and treat-Past decade was essentially an exploi- ment programs are to be successful. live rehash of Pre- and Post-Magde- They closed: lanian knowledge.

But there may be great potentials; for fruitful meeting.



The Sackter Theorum

My own contribution in the field of

Sackler Theorem of the Inverted

Sexual humor is, of course, more

than the reaction of embarrassment, It

is also n form of sharing of limited

knowledge, the light touching of a

taboo, and significantly an offset of

fear, a farm of whistling in the dark,

But man, in the area of sex, needs

more medical facts for a science of

sexual meilicine, facts and moru facts,

facts for better understanding uni facts

for practical prophylaxis and treatment.

Fortunately, as we prabo the nuclsar

clements of our subject, a qualitative

explosion niny contribute to our yield.

Oh, if we can but add more wit and

greater wisdom to this happy and es-

sential form of human communication.

These comments were part of Dr. Sack-

ler's opening remarks at the W.H.O.

Symposium on Human Sexuality, Ge-

We of the Task Force on World

Health Manpower are particularly pleased to be associated with W.H.O.

and the University of Geneva in this

meeting for it marks another W.H.O.

initiative so fully in accord with the

prioritias of good health. W.H.O.'s dls-

ease eradication campaigns were and

neva, Februory, 1974. They began:

ultimate exemplification.

Editor's Note:

Somatostatin Seen As Coming Therapy For Hyperglycemia

Caloasy, Alta.-Somatostatin will be very important in the treatment of hyperglycemin in the next four or five yesrs, predicted Dr. J. B. Martin, Professor of Neurology and Medicine, McGill University, Montrenl, at the annual meeting of the Canadian Medicol Association here.

However, important problems remain to be solved in connection with its use, he said. "Somatostatin doean't have a long enough effect by itself to be useful, but it has been combined with protamine zinc, prolonging its effect for from four to six hours, which may be enough. But there are toxicologic problems. Studies from Seattle indicate that in man somatostatin may have an sdverse effect on platelets, reducing their effective aggregation."

There are also problems connected with giving it to juvenile diabetics who tend to have the highest glucagon lev-cls, Dr. Martin pointed out. "Hopcfully, we can separate out the side effects of somatostatin by making analogues which will have one effect and not another."

The question of safe dosage must be worked out, "If the concentration of somatostatin in pancreatic islets is as high as it is in the hypothalamus, then the circulating levels which reach the psncreas might not be pharmacologie. This is the problem la the whole area of hormones, to determine when you dn something exogenously whether you are doing the natural thing or whether you are turning the aystem on at a much higher level."

Plasma Growth Factor

Another biologic growth factor (BGF) in plasma named nonsuppressiblo insulin-like activity-soluble (NSILA-S) will be even more important in the treatment of dlabetes mellitus than somatosistin, sald Dr. R. M. Bala, Director of Laboratory of Endocrinology, Foothilis Hospital, and Professor of Medicine, University of Calgary.

Dr. Bala reported at the CMA meeting that NSILA-S has a molecular weight near 7,000, ia a basic protein, has ILA (insulia-like activity) and SM (somatomedin) activity, and in GH (growth hormono) dependent, Growth hormone does not directly stimulate growth but leads to generation of secondary hormonal agents, somatomedins, that act at the cellular level.

Recent evidence indicates that SM-A may in fact not be GH dependent, that SM-B may be a separate GHBGF in plasma, since it is present in concentrations 1,000 times that of SM-A or

The recent isolation of a tripeptide from plasma which will stimulate cell velopment, he said.

Some of the very large SMs may in fact represent a small SM bound to a carrier protein. The presence of this carrier protein complex would be usetion of SM as well as preventing blo-may not be protein or polypeptide in logic degradation," he said. "SM-C nature." Welcome, and best wishes for a most

Medicine on Stamps Peter Hernquist



Peter Hernquist (1726-1808) received his medical degree at Upsala, became a teacher, then went to Lyon Veterinary School In France. Later he organized the first Swedish Veterinary Institute and became Sweden's first Professor of Veterinary Medicinc.

Text: Dr. Joseph Kler Stamp: Minkus Publications, Inc., New York

with its molecular weight near 7,000 appears to be similar to NSILA-S, MSA (multiplication stimulation activity) and the fibroblast growth factor of Cohen found in plasma," he said.

The significance of TLA activity of SM is still speculative, in Dr. Bala's opinion, even though it does have insulin-like effects on some cells. "SM and insulin may in fact be binding to aimilar receptors on various cells, fat cells for Instance. It would appear, however, that there are separate receptors for SM and for insulin in most other tissues."

It is possible that SM does feed back to the level of the hypothalamus to control GH secretion, Dr. Bala said. "The whole areu of the various molecular size forms of growth hormone and their relationship to the production of SM of various types is completely unexplored. At present, with the availability of purified BGFs, which are GH dependent, the relevance of GH to disenaes such as diabetes mellitus and other disturbances in normal growth and development will be more intelligently explored."

SM-5 'Interesting'

Dr. Bala summarized the findings of his centro in characterizing scrum SM as follows: "More than three-quarters of the total SM in normal plasma occurs in a very large molecular size greater than 90,000. Approximately one-half of this very large SM could be dissociated into smaller molecular size forms and this may represent a small SM bound to a larger carrier protein. We designated this as SM-1. SM-2, with a molecular size between 20,000 and 90,000, is present in only small amounts in plasma but is relatively stable. SM-3, with its molecular size between 9,000 and 20,000, can be dissociated into a smaller form and may in fact represent another form of SM-4. The proteins eluted in the molecular size between 3,000 and 9,000 showed the most potent SM activity in plasma. We have designated these as SM-4. Exgrowth in culture is a significant detensive further purification of SM-4 reveals that it has a molecular aize near 7,000 and exists in different charged forms of molecules. The very small SM in plasma, SM-5, predominantly exists in a molecular size less than 500. This ful la smoothing out the blologic ac. SM is very interesting in that part of it



the new name to Exceptionally well absorbed oral antibiotic

Larotid (amoxicillin) achieves high blood and urine levels

Low incidence of diarrhea to date in clinical studies

NUTLEY, N.J.-Roche Laboratories recently introduced an oral broad spectrum antiblotic: Larotid (amoxicillin), Larotid reprasents a significant contribution to antibacterlal chemotherapy, one which will perform sffectively in the treatment of a wide range of infections due to eueceptible organisms (see chart at right).

Absorption called the key

The key pharmacologic characteriatic of Larotid (amoxioillin) ls its rapid and efficient absorp-tion from the gastrointestinal tract. Not only is it stable in stomach acid, but the presence of food has no eignificant effect on the antibiotic's absorption. Thus Larotld may be taken by patients on a convenient t.i.d. schedule without regard to meals. The reconstituted oral suspension and pediatric drops may be added to liquids such as formula, milk, frult juice or soft drlnks for easy administration to small children.

Because of its sfficient absorption characteriatics, high blood and urine levels of Larotid (amoxicillin) are rapidly achieved. Peak serum levals nverage 4.2 mcg/ml two hours after a single 250-mg oral dose and 7.5 mcg/ml one hour after a single 500-mg oral dose - both levels approxlmately twice as high as those obtained with equal doses of ampl-

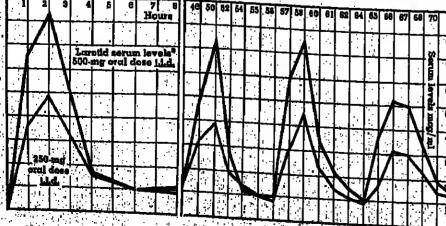
On a multiple-dose regimen, when given every eight hours for 8 days, the lowsst mean ssrum lsvels of Larotld approximated 1.0 mcg/ml after 250 mg and 1.25 mcg/ml after 500 mg. Although the therapeutic range of blood levels for the penicilline le not well established, these results demonetrate that blood levels may be expected to remain above the MIC's for all of the nonurinary pathogens succeptible to Larotid when it is administered at clinically recommended doses (see chart below).

Most of Larotid is excreted unchanged in the urlns.2 Average urlnary excretion within 6 to 8 hours after oral adminietration ranges from 40 to 79% for the 250-mg dose and 59 to 79% for the 500-mg dose, (-5

I. Croyden EAP, Sutherland R: Antimicrob Agents Chemother — 1970, pp. 427-430, 1971. 2. Neu HC, Winshall EB: Antimicrob Agents Chemother — 1970, pp. 428-428, 1971. 3. Dets on file, Haffmann-La Rache Inc., Nutley, New Jersey. 4. Leigh DA: Curr Mad Ras Opin 1:10-18, 1972. 5. Bodey GP, Nancs J: Antimicrob Agenta Chemother 1:358-362, 1972.

Hypersensitivity reactions can occur

As with other penicillins, it is anticipated that adverse reactions to Larotid (amoxicilin) will be largely limited to sensitivity phe-nomena. While anaphylaxis is rare in patients treated with oral



GRAM-POSITIVE Alpha-hemslytic streptocscci Bsts-hemolytic streptocscci Strsptocoosus fascalis GRAM-NEGATIVE Homophilus influenzae Eacherichia cali Proteus mirabilis Neisaeria youorrhosae

In vitro bactericidal activity

Nata: Bacques Larotid (amaxicillin dese net resist destruction by penticillin) dese net resist destruction by penticillinase, it is net effective against penticillinase-producing basteria such as resistant elaphyleococi. All strains of Pesudomonas and most strains of Klebsiella and Enterobacter or resistant.

penicilins, the poseibility must nevertheless be kapt in mind. Larotid le contraindicated in patiente with a history of penicillin hypersensitivity. SERIOUS ANAPHYLACTOID REACTIONS REQUIRE IMMEDIATE EMERGENCY TREATMENT. (See Warnings section of com-(See Warnings section of com-plete product information, a summary of which appears at right.)

Efficacy demonstrated in many infections

Amoxicillin has been administered successfully to patients with a wide range of commonly seen infectione due to susceptible organisms.* Over-ali clinical evaluation of amoxicillin therapy was considered a "susceptible and "susceptible organisms." considered a "success" or "improvement" in 1267 of 1850 evaluable cases (93.8%).†

Ages of the 1350 patients studed ranged from un to over 80 years. Larotld capsules were administered to 800 patients and oral suepension to the remaining 550. Dosage of the remaining 550. Dosage of the capsules ranged from 250 mg ti.d. (the most frequently used dosage) to a single 8-Gm dose for the treatment of acute uncomplicated gonorrhea. Dosage of the oral suspension ranged from 50 mg ti.d. to 250 mg ti.d., with 125 mg ti.d. the most frequent. The majority of patients were treated from seven to 10 days, A breakdown by type of infection follows:

| Checks reported to descriptions with amoxicillin, all cases treated wars evaluated for side effects. No sids effects or laboratory abnormalities which would be considered unusual for a penicillin derivative were reported by any of the investigators.

In 2658 total courses of therefore the constant of the investigators of the investigators.

In 2658 total courses of the apy with amoxicillin, therapy was discontinued in only 52 patients.

Otitls Media: The pathogens most commonly isolated were Diplococcus pneumoniae and Hemophilus influenzoe. Of 130 cuses with this diagnosis, 127 (98%) were rated as a "success" or "improvement" after trestment with Larotid (amoxicillin). Streptococcal Sore Throst: A

WWWW

streptococcal Sore Throst: A success rato of 86% (174 of 202 casca) was observed with Larotid against the responsible pathogen, beta-homolytic streptococci. The great majority of the 202 ps. ticuts in this group were children who received the oral suspension.

Other Upper Respiratory Infections: Beta-hemolytic streptococclt were the offending organiems for most of the infections In this group, which were diagnosed primarily as pharyngitis, with some cases of tonsillitis and a few cases of sinusitis. A success rate of 82% (56 of 68 cases) was achleved with Larotid.

Lower Respiratory Infections: Treatment with Larotid resulted in "success" or "improvement" In all of the 52 cases in which Diplacoccus pneumaniae was cultured. Staphylococcus aureus was also cultured in 26 of the 98 cases: Larotld showed "success" of 'improvement" in 96% (25 of 26 cases). The most common clinical conditions were bronchitis and bronchopnenmonia.

Urlnary Tract Infections: Cystitis, pyclonephrltie and asymptomatic bucteriuria wers ths most frequent clinical dlagnoses in this group. Of the 404 cases evaluated, Escherichia coli was cultured in 306 cases and treatment with Larotld resulted in "success" or "Improvement" in 284 cases (98%). Proteus mirabilis was cultured in 70 patients, with Larotld effective in 67 (96%).

Skin and Soft Tlesue Infections: Staphylococcus aureus was cultured in 108 cases, with "success" or "improvement" in 104 (96%); while beta-hemolytic etreptococcl wero cultured in 99 cases, with "success" in 97 (98%). Impetigo and abscess were the most frequent dlagnoses.

Gonorrhea: Administered as a single 3-Gm oral dose, Larotid showed a success rate of 97% in both malss (85 of 88 cases) and females (114 of 118 cases).

*Data on file, Haffmann-La Rocha Inc., Nutley, New Jerssy 07110.

1"Success" or "Improvement" was determined by a sombination of simical and basteriological criteria. In infections due to bata-hemolytic stropicscottand M. gonorrhoeas, anly successes usre included.

Low incidence of side effects reported to date

Drug-Related Side Effects Associated with Amoxicillin

Based upon 2658 courses of therapy: 1811 with the capsules and 847 with the oval

CAPSULES

SIOE EFFECT	#	%	#	%
	24	1.3	10	2. l
Olerrhe 8	24	1.3	17	2.0
Rash		0.3	1	0.1
Naus68	7 8 7	0.4	2	0.2
Urticaria	7	0.3		
Lionii lasia		0.2		
Wallesa / Voltilline	4 3 2 2 2 2 2	0.1		
Olsothes/Nauses	ž	0.1	4	0.4
Vomiline	5	0.1		
Oizzinea 8	5	0. i		
Califia	5	0.1		
Nausaai Haadacha	2	0. i	1	0.1
Quah/ Lirticaria		0.05	•	
Fsophagasi Spasm	,	0.05	1	0.1
Stomachacha	•	0.05	•	0
Ssiching		0.05		
Orowsinass		0.05		
Belching Numbusss/Tingline/Itching	•	0.05		
Faueri Itchine	•	0.05		
Officult Breathing	•	0.05		
Mineria in Pharvill		0.05		
Olerrhea/Urticaria	÷		4	0.4
Olarchaa/Vamilline		0.05	*	0.4
Dizzinass/ Haadacha	1	0.05		
Conjunctival Ecchymosia		0.05		
O.I. Glasding	į	0.05		
Abdeminal Cramps	į	0.05		0.1
Olsrchaa / Rash	1	0.05	÷	0.1
Rash/ Olarrhsa/Vamitine			į	
Sore Tongua			ļ.	0.1
Resh/Vorniting				0.1
TOTAL	102	5.6	52	6.1

(19%) because of drug-related sids effects. Laboratory abnormalities possibly related to amoxicillin occurred infre-

In these studies, there was u low lackdence of diarrhea reported with amoxic lliin capsules-1.7% or 30 of 1811 patients. Especially noteworthy was the low incidence of diarrhen reported with amoxicillin or al auspensiononly 28% or 24 of 847 putients, significantly less (p<0.05) than the lucidence of diarrhea with ampiellln oral suspension (5.31)

or 15 of 282 patients). In breaking down the aver-ull incidence of diarrhea by uge groups, it was found that in the group from 0 to 1 (newhern and 1-year-old infants), 18 of 108 pmtlents recoiving amoxicillin oral

suspension developed diarrhon, for an incidence of 12". This represents over one-half the total number of diarrheu cases seen in the 847 patients treated with amoxicillin orai suspension.

Throughout each of the renullning age entegories, starting from age 2 to 10 and in the general grouping from uge 11 to 20, the incidence of dlarrhea in patients treated with amoxicilin arai saspensian ranges from 2% down to 0 in the older groups. There were few cases of diarrhen beyond the age of six.

The Incidence of dlurrhea with Larotid (umaxicillin) can therefore he expected to be consideriddy higher in the newborn and infant age groups than in older children, which is true of all unti-

Usual Adult and Pediatric Dosages

NDICATION	STRAIN ISOLATEO	OOSAGE	PEDIATRIC DOSAGE.
nlections of the ear, neas, throat	Streptococci, pneumococci, nonpenicillin esa-producing etaphylococci, H. Inliuenzee	250 mg <u>t.l.d.</u>	Oral Suspension: 20 mg/kg/ day in divided doses t.l.d. Orops: Under 6 kg (13 lbs): 0.5 mi t.l.d.; 6.8 kg (13 18 lbs) I mi t.l.d.
Infections of tite lower respiratory tract	Streptococci, pneumococci, nonpenicillin- ees-producing etephylococci, H. influenzes	500 mg <u>t.i.d.</u>	Oral Suspension: 40 mg/kg/day in divided doses t.l.d. Orops: Undar 6 kg (13 lbs): 1 mi t.l.d.; 6.8 kg (13-18 lbs); 2 mi t.l.d.
Infections of the genito- urinery tract	E. coli, Proteus mirabille, Strep. Isecalls	250 mg <u>t.l.d.</u>	Oral Suspension: 20 mg/kg/ day in divided dozes t.i.d. Orops: Under 6 kg (13 lbs): 0.6 ml t.i.d.; 6.8 kg (13-18 lbs) 1 ml t.i.d.
Infections of the skin and soft tisausa	Streptococci, eusceptible etaphylococci and E. coll	250 mg <u>t l.d.</u>	Oral Suspension: 20 mg/kg/ day in divided doses 1.1d. Drops: Under 6 kg (13 lbs): 0.5 ml 1.1d.: 6-8 kg (13-18 lbs 1 ml 1.1d.
Severe Infec- tions, or Infections caused by less susceptible organisms		500 mg <u>t i d.</u>	Oral Suspension: 40 mg/kg/day in divided doses t.l.d.
Gonorrhea, acute uncom- plicated anogenital and urethral infac- tions (males and temsies)	N. genorrheese	3 grams— single oral dose	

Before prescribing, please consult complete product information, a eummary of which follows:

Indications: Infections due to susceptible etralna of the following gram-negative organisms: H. influenzae, E. coli, P. mirabilis and N. gonorrhoeae; and grampositive organisms: etreptococci (including Streptococcue faecalis), D. pnsumoniae and nonpenlcillinase-producing staphylococci. Therapy may be instituted prior to obtaining results from bacteriological and susceptibility studies to determine causative organisms and susceptibility to amoxicillin.

Contraindications: In individunis with history of allergic reaction to penicillins.

WARNINGS: SERIOUS AND OC-CASIONALLY FATAL HYPERSEN-SITIVITY (ANAPHYLACTOID) REACTIONS REPORTED IN PA-TIENTS ON PENICILLIN THER-APY. ALTHOUGH MORE FRE-QUENT FOLLOWING PARENTER-AL THERAPY, ANAPHYLAXIS HASOCCURRED IN PATIENTS ON ORAL PENICILLINS. MORE LIKELY IN INDIVIDUALS WITH HISTORY OF SENSITIVITY TO MULTIPLE ALLERGENS, BEFORE MULTIPLE ALLERGENS. BEFORE
THERAPY, INQUIRE CONCERNING PREVIOUS HYPERSENSITIVITY REACTIONS TO PENICILLINS, CEPHALOSPORINS OR
OTHER ALLERGENS. IF ALLERGIC REACTION OCCURS, INSTITUTE APPROPRIATE THERAPY
AND CONSIDER DISCONTINUANCE OF AMOXICILLIN. SERIOUS
ANAPHYLACTOIO REACTIONS ANAPHYLACTOIO REACTIONS REQUIRE IMMEDIATE EMER-GENCY TREATMENT WITH EPI-MEPHRINE, ADMINISTER OXYGEN, INTRAVENOUS STEROIDS AND AIRWAY MANAGEMENT, INCLUD-ING INTUBATION, AS INDICATED.

Usage in Pregnancy: Safety In pregnancy not established.

Precnutions: As with any potont drug, assess renal, hepatle and hematopoletic function periodically during prolonged therspy. Keep in mind poselbillty of auperinfections with mycotic or bacterial pathogons; if they occur, discontinus drug and/or inatituto appropriato therapy.

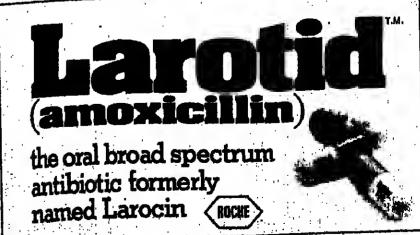
Adverse Reactions: As with other peniciline, untoward renc-tions will likely be escentially limited to assistivity phanomena mid more likely occur in individuals previously demonstrating peni-cilin hypersensitivity and those with history of allergy, asthma, hay fever or urticaria. Adverse reactions reported se associated with use of psnicilline: Gastrointestinal: Naueea, vomiting, diarrhsa. Hypersensitivity Reactions: Erythematous maculopap-ular rashes, urticaria. NOTE: Urticaria, other skin rashes and

serum sickness-like reactions may be controlled with antihistamines and, if necessary, eystemic corticosteroids. Discontinue amoxicillin unless condition is believed to be life-threatening and amenable only to amoxicillin therapy. Liver: Moderate rise in SGOT noted, but significance unknown. Hemio and Lymphatic Systems: Anemia, thrombocytopenia, thrombocytopenic purpura, eosinophilia, leukopenia, agranulocytosis. All are usually reversible on discontinuation of therapy and believed to be hypersensitivity phenomens.

Dosage: Ear, nose, throat, genitourinary tract, skin and soft tissue infections-Adulte: 250 mg every 8 hours. Children: 20 mg/ kg/day in divided doses every 8 houre; under 6 kg, 0.5 ml of Pediatric Drope every 8 hours; 6-8 kg, 1 ml of Pediatric Drope every 8 hours. Lower respiratory tract infections and severe infections or those caused by less susceptible organisms - Adults: 500 mg every 8 hours. Children: 40 mg/ kg/day in divided dosee every 8 hours; under 6 kg, 1 ml of Pediatric Drops every 8 hours; 6-8 kg, 2 ml of Pedlatric Drope every 8 hours. Gonorrhea (acute uncomplicated anogenital and urethral infections) - Males and females: 3 grame as a eingle oral doee. NOTE: Children weighing more than 8 kg should receive appropriate dose of oral euepension 125 mg or 250 mg/5 ml. Children weighing 20 kg or mora should be doeed according to adult recommendations.

Note: In gonorrhea with suspected losion of syphilis, perform dark-field examinations before amoxiclllin thernpy and monthly scrological tests for at least four months. In chronic urinary tract Infections, frequent bactoriological and clinical appraisals aro necessary. Smaller than recommended doses should not be used. In stubborn infoctione, several weeks' thernpy may be required. Except for gonorrhen, continue treatment for a minimum of 48-72 hours after patient is asymptomatic or bacterial eradication is evidanced. Treat hemolytic streptococcal infections for at least 10 days to prevent acute rhsumatic fsver or glomsrulonephritis.

Supplied: Amoxicillin as the trihydrate: Capsules, 250 mg and 500 mg; oral suepansion, 125 mg/ 5 ml and 250 mg/5 ml; pediatric drops, 50 mg/ml.



There's a simple way to resolve the apparent riddle about stock market prices. It's not by agonizing over the price trend, but by recognizing the plain, unarguable meaning of the volume trend. Volume is not just down; it has collapsed into a bottomless pit.

The August stock market buying panie had a double impact on volume. It began by expanding volume to a new peak; and ended by making inflated stock prices dependent on still new volume peaks for their stability. The 1975 high for volume-35 million shares a day-is an cycbrow raiser. The dcpth of the subsequent collapse speaks for it-

In the wake of the buying panic, I ventured the guesstimate that the market would need to do 35 million shares a day just to hold its gains, and no less than 40 million shares a day to extend them. The gains were guaranteed to send sellers scrambling to turn stocks back into cash. Moreover, the sellers were likely to be the owners of big blocs accumulated in the years when the fundamentals warranted a simple vote of confidence in holding stocks. The uncertainties developing have been clearly persuading more substantial investors to lighten their holdings.

More buying has been needed to absorb the buildup in selling volume. Instead, buyers have been scared off and sellers locked in.

Volume has now sometimes shrunk to under 12 million and even 11 million shares daily. More ominous still, volume has taken to making new lowa on days when prices have been firm or even rising. This divergence between the volume and the price trend is enough to show that the main rift of the market is again downward, and that its ralles are now corrections.

If volume is indeed proved the forerunner of prices, a corresponding twothirds drop in the Dow from its old double top of 1,000 would collapse it towards 300.

Ask Janeway

I am a 45-year-old divorced R.N. and am going hack to nursing after a very long absence.

My brother-in-law advises me to take \$20,000 out of my portfolio and put it into foreign government boads at 11 per cent. What do you think of that? Midwest R.N.

Your brother-in-law's suggestion is not impressive. Triple B-rated U.S. Utility bonds are yielding above 11 per cent, and they are safer than foreign bonds.

Send your questions on finances, investments, taxes to Janeway, MEDICAL TRIBUNE, 880 Third Avenue, New York, N.Y. 10022 .

Emotional Problems Drop Residents from Psychiatry

Continued from page 16 Zebuloa C. Taintor, a psychiatrist and director of Multi-State Systems, Rock-

"The small size of the group who reasons confirms our impression from experience that residents who exhibit difficulties severe enough to lead to termination do so independent of emotional disturbance," the AADPRT task force report concluded.

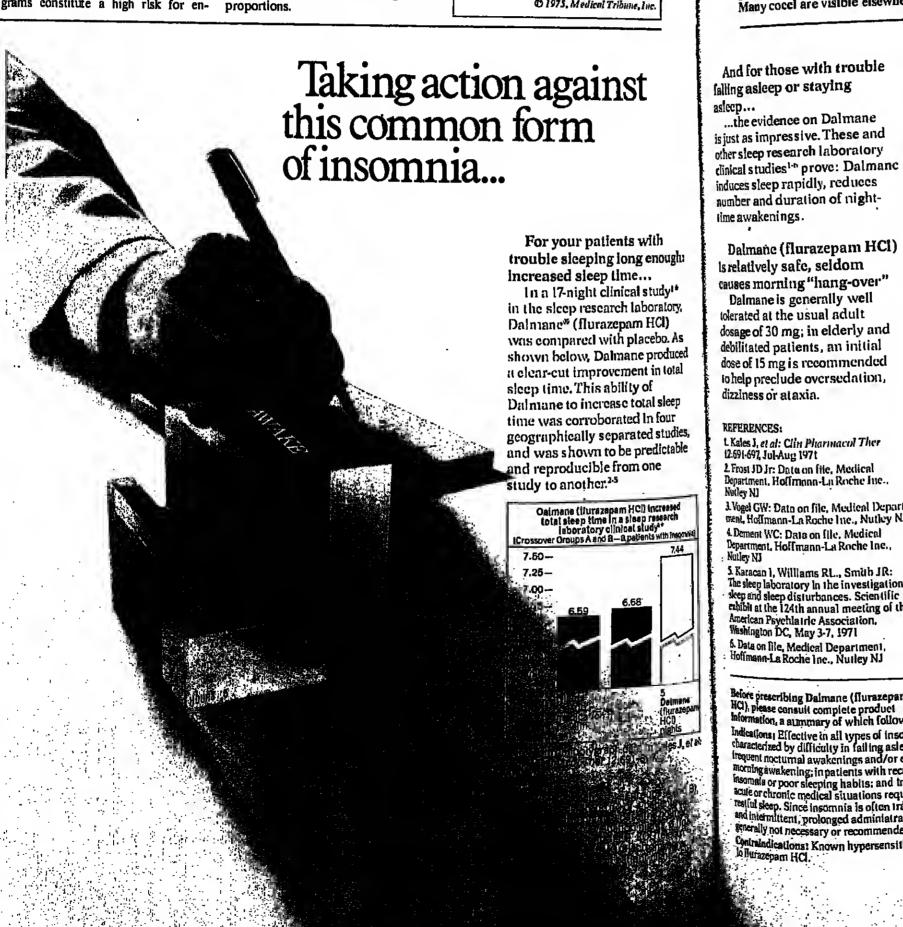
The study findings also contradicted the widespread belief that minority groups in psychiatric residency programs constitute a high rlsk for en-

countering problems during residency. "Contrary to our expectations, we

found that women, ethaic minorities. land Research Center in Orangeburg, and FMGs had a significantly lower incidence of marginal performance or emotional problems than their distrileft for academic or miscellaneous bution in the total residency population would suggest," Dr. Russell said. In an effort to help curb the problem

of emotionally disturbed residents, the task force recommended that program directors make every effort to identify the factors common among residents who become emotionally ill, and provide the support necessary to keep those problems from reaching crisis proportions.





Apparent Hyaline Disease May Be Strep B



appeared to be hyaliae membrane disease, but was, la fact, an overwhelailag group B strep iafection. Arrow shows gram positive cocci la chains and pairs.

Many cocci are visible elsewhere in slide, but no iaflammatory cells.

Warnings: Caution patients about possible

CNS depressants. Caution against hazardous

occupations requiring complete mental atert-ness (e.g., operating machinery, driving).

Use in women who are or may become preg-

nant only when potential benefits have been

weighed against possible hazards. Not

recommended for use in persons under 15

years of age. Though physical and psycho-

ogical dependence have not been reported

administering to addiction-prime individuals

Precautions: to elderly and debitimed, initial

dosage should be limited to 15 mg to preclude

combined with other drugs having hypnotic

additive effects. Employ usual precautions

in patients who are severely depressed, or

Pertodic blood counts and liver and kinney

function tests are advised during repeated

Adverse Reactions: Dizziness, drawsiness,

lightheadedness, staggering, nucin and falling have occurred, particularly in elderly

lethargy, disoriestation and come, probably

or debilitated patients. Severe sedathur,

therapy. Observe usual precautions in presence at impaired renator hepatic function.

or CNS-depressant effects, consider potential

with latent depression or suicidal tendencies.

oversedation, dizziness and/or ataxia, if

on recommended doses, use caution in

or those who might increase dosage.

combined effects with alcohol and other

Continued from page 1 ologists. Jaundice and hyperbilirubinemia were observed in most of the pa-

The elue to a differential diagnosis, another team member said in an interview, is the acute onset of respiratory distress. "The development of apnea suggests hyaline membrane disense, but the suddenness is not characteristic of this disease, which is more gradual in onset," declared Dr. Tim Miller, Director of the Premature Intensive Care Unit at St. Francis.

With group B strep infections "now recognized as the number one cause of death" in neonates due to septicemia, Dr. Baman urged the importance of both swift therapeutic measures and an

indicative of drug intolerance or overdosage,

headache, heartburn, upset stomach, nausea,

plaints. There have also been rare occurrence

ol ienkopenia, granulocytopenia, sweating,

vision, burning eyes, faintness, by poten sion

sin riness of brenth, prurit us, skin rash, day

muntil, biller Inste, excessive salivation,

annrexin, cuphoria, depression, slurred

speeds, confusion, restiessness, halfuction

Purudoxical reactions, e.g., exeltement,

been reported in rare instances.

stimulation and hyperactivity, have also

effect. Adults: 30 mg usual dosage; 15 mg may suffice in some patients. Elderly or

debilitated patients: 15 mg initially un til

Supplied: Copsules containing 15 mg or

ions, and elevated SGOT, SGPT, total and

direct bilirubins and alkaline phosphorase.

Dosage: Individualize for maximum beneficial

have been reported. Also reported were

vomiting, diarrhea, constipation, GI pain,

nervousness, talkativeness, apprehension

irritability, weakness, paipitations, chest

pains, body and joint pains and GU com-

Ilusius, difficulty to focusing, blurred

immediate culture at the first sign of infection.

His warnings came in a report on 21 infaats with group B streptococci studjed at the hospital. Eleven had sepsis, 10 had group B colonization. There were nine deaths in the series, from seven hours to four days after birth, with seven of the deaths occurring in the senticemic series.

In the latter group, the infants were premature or underweight or both. Of the 10 neonates with group B colonization, none showed any of the clinical symptoms seen in the sepsis group, Dr. Baman noted. Precautionary cultures were taken in this group, however, because of the prolonged rupture of the fetal anembranes-17 hours or longer in duration.

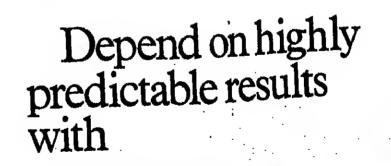
High Degree of Suspicion

In his interview, Dr. Miller stressed: 'Physicians should be aware that infants most at risk of dying from B strep infections are those of low birth weight or of low gestational agc. Their clinical picture is exactly like that of hyaling, membrane disease. If these babies are born in outlying hospitals, they should be transferred as quickly as possible to a ceater where respiratory care can be offered. We think that if the baby exhibits respiratory distress, he should have an appropriate culture taken and antiblotics started prior to transport. As for the problem of B strep colonization, again there must be a high degree of suspicion in infants of low gestationnl age and low birth weight, because the disease kills so quickly.

He noted that at autopsy in the septicemic neonates, "The organism is so everwhelming, you can see it micro? scopleally in the lung tissue."

Dr. Baman added: "The infant's chest x-ray is usually interpreted as livaline menibrane disense, or pneumonin or biluteral infiltrate. But if you make a Grain stain, you see the organism everywhere."

Conuthor was Dr. C. E. Kelly, Associate Pathologist.



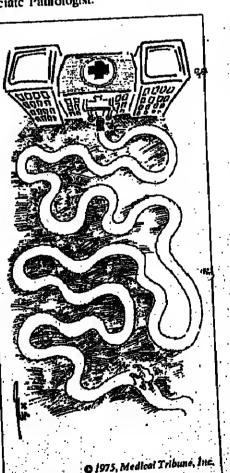
Dalmane

One 15-mg capsule h.s.— initial celderly or debilitated paticols.

Objectively proved in the sleep research lanuratory:

- a sleep for 7 to 8 hours, on average,
- with a slagle h.s. dose
- aleep with fewer nighttime awakenings
- sleep within 17 minutes, on average





L Kales J, et al: Clin Pharmacol Ther 12:591-697, Jul-Aug 1971 2. Frost JD Jr: Data on file, Medical Department, Hoffmann-La Roche Inc., Nucley NJ 3 Vogel GW: Dato on file, Medical Department, Hollmann-La Roche Inc., Nutley NJ

Wednesday, November 12, 1975

And for those with trouble

...the evidence on Dalmane

Dalmane (flurazepam HCI)

is relatively safe, seldom

causes morning "hang-over"

Dalmane is generally well

dosage of 30 mg; in elderly and

debilitated patients, an initial

dose of 15 mg is recommended

to help preclude oversedation,

dizziness or ataxia.

REFERENCES:

tolerated at the usual adult

4 Dement WC: Date on file, Medical Department, Hoffmann-La Roche Inc., Nulley NJ Karacan I, Williams RL., Smub JR:

The sleep laboratory in the investigation of skep and sleep disturbances. Scientific chibit at the 124th annual meeting of the American Psychiatric Association. Hashington DC, May 3-7, 1971 6 Data on file, Medical Department, Hoffmann-La Roche Inc., Nutley NJ

Before prescribing Dalmane (flurazepam HCl), please consult complete product information, a aummary of which follows: Indications: Effective in all types of insomnia requent noctumal awakenings and/or early morningawakening; in patients with recurring insomals or poor sleeping habits; and to acute or chronic medical situations requiring restul steep. Since insomnia is often transient and internittent, prolonged administration is generally not necessary or recommended: nimindications: Known hypersensitivity

As summarized by K. H. Gabbay (New Eng. J. Med. 288:831, 1973),

tations (lens, retina, nerve, kidney,

blood vessels and islet cells), and an

involvement in some of the diabetic

tissue complications." Sorbitol, being

metabolically inert, accumulates where

formed, the more so with time and the

higher the level of its blood glucose

precursor. Intracellular sorbitol necum-

ulation, which characterizes diabetes,

is indeed proposed by U.S.S.R. endocrin-

ologist N. Drasnin as a basic metabolic

lesion of aging (Lancet 1:1175, May

26, 1973). He suggests possible pro-

phylaxis of atherosclerosis, degenera-

tive lesions of diabetes and aging by

Natural senna from the

Cassia acuttfolia plant has been

used as a laxative for over 3000

ears. <u>Purified</u> and <u>standardized</u> for

uniform action in SENOKOT prep-

arations, it offers virtually colon-

pecific, gentle, predictable over-

night laxation...virtually free of

side effects when given at

proper dosage levels.

YOUR TROUBLE

By Oldden

Current Opinion

. The Importance of Being Earnestly Critical

Continued from page 14 School (Diabetes, 21:1173, 1972) found accumulates intracellularly in a number that "in human beings with diabetes, of tissues. Unlike muscle and adipose good control improves the state of myclination of already damaged nerves, the passage of glucose into their cells, (for when blood sugar is controlled the accumulation in nerves of the products of the sorbitol pathway may be minimized)."

Nature of Diabetic Lesion: The cose, and with hyperglycemia intra-Sorbitol Pathway

TUST AS HYPERLIPEMIA appears to in increase the deposition of its meta- is formed from glucose by the enzyme bolically inert component, cholesterol in arterial tissue contributing to atherosclerosis, so too does hyperglycemia tracellularly, contributing to hypertoadd to the deposition of a metaboli- nicity within the cell.

cally inert by-product, sorbitol, which tissue which require insulin to effect other tissue cells do not require the agency of insulin for penetration of glucose; they, being freely permeable to glucose, the ambient blood glucose level determines the intracellular glucellular glucose is increased. Within the cells, the inert sugar alcohol sorbitol aldose reductase. This and other sugar alcohols once formed are trapped in-

In this age of synthetics you can choose a <u>natural</u> vegetable laxative

prevention of hyperglycemia and hy. perlipidemia.

in Hyperglycemia Control

THE SORBITOL PATHWAY is a new and

Key to Diabetes Therapy

Wednesday, November 12, 1975

MOULD YOU LIKE ME

Safety of Judo Participation

vestigators suggested that more failing practice and a study of gymnastics would

1969 to 1973. In addition, 90 Shials

to obtain all the information needed

(tournaments) were included.

"It is difficult during a tour

nelp students orient themselves in space quickly. The need for both is obvious

New ORLEANS-A study of judo in-

lunes by three California physicians.

undertaken to assess the safety of judo

better methods of recording injuries

and produced new guidelines for judo

TO TELL YOU YOUR

PROBLEM ?

Clinical Trials

"Recent investigations suggest a role New Hormonal Interrelationships for the sorbitol pathway in the metabolism of the excess glucose in the tissues bearing the brunt of dinbetic manifes-

developing concept in the pathogenesis of diahetic lesions, it provides a further rationale for control of hyperglycemia. So does the insulin-glucagon interrelationship expounded by Dr. Roger Unger center on control of the hlood sugar. In Dr. Unger's view, diabetes is a biharmonal abnormality, i.e., glucingon excess of the panereatic alpha eclls us well us insulin deficiency of the beta cells. Nor are these two hormones all. Gluengon suppression with pituitary somntostntin markedly reduces hyperglycemia lacilitating glucoregulation and control of hyperglycemia with only a fraction of the insulin otherwise required. Somatostatin has a broad suppressing effect on hormones other than glucagon, including growth hormone, insulin itself and a variety of hormones of the upper gastrointestinal trnet which influence pancreatic hormone release of insulin and glueagon. indeed, very recently evidence has been adduced that sommostatin is not confined to the pituitary and hypothalamus but niny be a natural component of the gut und pancreas, and a master hormone in regulating glucose metabolism by its mediating action on other hormones of the got and panereas (Lancet 1:1323, June 14, 1975).

Hyperglycemia Control Remains

TT IS OF PARTICULAR INTEREST that with all the rapidly evolving new concepts in diabetes-the sorbitol pathway, the insulin-glueagon bihormonal regulation of blood glucose, the suppressive effect of somatostatin on glucagon and other hormones facilitating control of blood sugar-one tenet remains, i.c., the importance of regulating blood sugar and preventing hypergly-

New physiologic understanding ex-plains what has been documented clinically in long-term follow-up studies, namely that the well-controlled diabetle, as judged by regulation of the blood sugar, fares much better with respeet to survival and complications. than diabetics who are not well controlled. The finding that diabetics who are not well controlled exhibit a mortallly two-and-a-half times greater than those who are well controlled, observed In the earlier Equitable Life study in which the writer collaborated, has been found precisely the same in the greatly extended twenty-year mortality atudy by Goodkin.

It seems clear that control of hyperglycemla in dlabetes is important. When this can be accomplished by diet alone, It is, of course, desirable to do so. Hopefully in the future the recently discovered beneficent effect of somatostatin will lead to the development of new approaches to regulate blood augar. Until such time, other hypoglycemic agants: which have had very extensive elinical use, inaulin, the sulfonylureas and the biguanides are available to offer, together with dlet versatile approaches to managing the diabetic patient. Thera appears to be no basis to alter present clinical use of the sulfonyloreas or the biguanides

"should touch and cheek each injury TRIBUNE SPORTS REPORT with the doctor while on the mat and help keep books." Referees, they found, often neglect their duty to pe-**New Guidelines May Improve** nalize "overly zealous but incompetent

To avoid injuries from legitimate moves, "it might be well that a study of gymnastic techniques is in order, so the student can learn to orient himself in space quickly and easily," they

.. YOU DON'T KNOW

HOW TO GIVE

They also observed that:

· The type of mat, exclusive of a thin horschair wrestling mat, does not affect injury rates. • A "springing" floor does seem to

reduce injuries. · Certain maneuvers should be re-

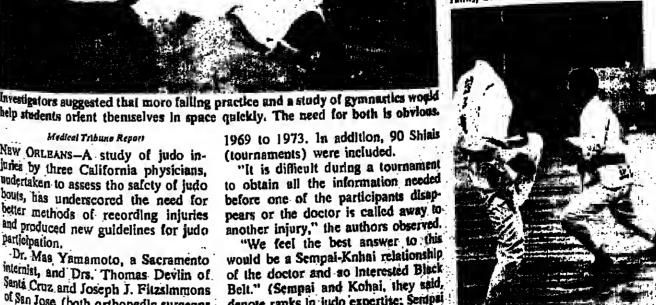
stricted to bouts between higher-rank-More Ukemi (falling) practice is

needed from all positions. • The contestant who has been

stuaged should give serious considerntion to withdrawal from the tournn-

· Anyone who sustnins a concussion or traumatic loss of consciousness should withdraw immediately without

Bloody noses, sore or sprained tocs and ribs, chokes and arms bars, and compialats with un positive physical findings were not listed as injuries in the study, the authors said. Nevertheiess, because of problems in reporting injuries, "the ratio of injuries to bouts for national tournaments appears to be innocuous whon compared to promotionals Itests to qualify for higher rank], but this is very deceptive."



of San Jose (both orthopedic surgeons and judo buffs), based their report to is higher.) Study of jude lajuries found that cer-tain maneuvers should be restricted to the Americao Orthopedic Society for They also recommended Kohai rank bouts between higher-ranking students. Sports Medicine, meeting here, on 14,- as a qualification for a referee of a dacontestants and 20,567 bouts from tional tournament. The referee

IMMATERIA MEDICA

Speaking of Tidal Waves

"We liked," says Dr. G. G. Heit of 🗻 New York, "the opening line of Ernest Leogrande's review of the Japancse-American film Tidal Wave, which is nelvertised as "the ultimate disaster." It reads: "Japan is slowly sinking into the ocenn, the ultimate travelogue."

It sure brings back memories of all those sound track narrations that ended "And now we leave . . . sinking in the setting sun."

Hot Seats

From Floresville, Texas, Dr. Sam A Nixou has enlivened our duy with at execrpt from the Bulletin of the Ameri can Association of Public Health Physicians in Austin that reports on a new resolution concerning smoking restrictions in places of public assembly in New York. The new resolution provides:

"-Restuurants with 51 or more scats must set aside at least 220 percent of them for nonsmokers."

Overkill!I, says Dr. Sum.

The Swiss Connection

GENEVA, SWITZERLAND - Phormacists In Switzerland, faced by an increasing number of break-ins by persons seek- 5 lng drugs, have come up with a Swiss solution. Drugs liable to addletion or abuse are boing stored at night in tha vaults of local banks.

It's the old Swiss connection-too logical for words.





